Journal of Nuclear Materials 179–181 (1991) 1257–1271
North-Holland

Author index

Abe, F., T. Noda, H. Araki and S. Nakazawa, Alloy composition selection for improving strength and toughness of reduced activation 9Cr–W steels 179 (1991) 663
Abe, F., see Noda, T. 179 (1991) 379
Abe, H., C. Kinoshita and K. Nakai, Accumulation process of cascades in ceramics under ion and/or electron irradiation 179 (1991) 917
Abe, H., see Fukumoto, K. 179 (1991) 935
Abe, K., F. Nagase and S. Morozumi, Fusion–fission–light ion correlation of mechanical property change in a TZM alloy 179 (1991) 1088
Abe, K., T. Higuchi and Y. Fujino, Solid-state bonding between vanadium alloys and alumina 179 (1991) 766
Abe, K., see Satou, M. 179 (1991) 757
Adachi, M., see Suzuki, M. 179 (1991) 441
Adetunji, G.J., see Waite, N.C. 179 (1991) 1065
Aiju, W., see Changqi, S. 179 (1991) 322
Akasaka, N., see Kinoshita, H. 179 (1991) 722
Akiyama, T., see Nakajima, T. 179 (1991) 349
Alberman, A., F. Lefevre, G. Thevenot, M. Masson and M. Savineau, Irradiation facilities development at CEA for solid and liquid breeder blankets qualification programs 179 (1991) 1154
Albertini, G., F. Carsughi, R. Coppola, F. Rustichelli, W.A.H.M. Vlak and C. Van Dijk, Microstructural investigation of 12% Cr martensitic steel for NET by means of small angle neutron scattering 179 (1991) 706
Alexander, D.J., see Klueh, R.L. 179 (1991) 679
Alexander, D.J., see Klueh, R.L. 179 (1991) 733
Anderko, K., L. Schäfer and E. Materna-Morris, Effect of the δ-ferrite phase on the impact properties of martensitic chromium steels 179 (1991) 492
Anderson, K.R., see Garner, F.A. 179 (1991) 250
Ando, T., H. Takatsu, H. Nakamura, M. Yamamoto, K. Kodama, T. Arai, M. Shimizu, K. Fukaya, M. Eto and T. Oku, Performance of JT-60 divertor plates 179 (1991) 339
Aoki, A., see Watanabe, H. 179 (1991) 529
Aono, Y., see Muroga, T. 179 (1991) 259
Aota, K.-y., see Kurokawa, K. 179 (1991) 762
Arai, T., see Ando, T. 179 (1991) 339
Araki, H., see Abe, F. 179 (1991) 663
Araki, H., see Noda, T. 179 (1991) 379
Araki, K., see Yoshida, N. 179 (1991) 1078
Araki, M., see Kiuchi, K. 179 (1991) 282
Araki, M., see Takatsu, H. 179 (1991) 344
Arroyo, J., see Dequidt, E. 179 (1991) 659
Asai, Y., Y. Isobe, K. Nakai, C. Kinoshita and K. Shinohara, Inducement process and mechanism of spinodal decomposition in electron-irradiated Au–Ni alloys 179 (1991) 1050
Asakura, K., see Hiwatashi, S. 179 (1991) 709
Asaoka, Y., H. Moriyama and Y. Ito, Equilibrium distributions of tritium in liquid lithium/molten salt systems 179 (1991) 879
Asaoka, Y., see Moriyama, H. 179 (1991) 839
Ashino, T., see Iwata, S. 179 (1991) 1135
Atsumi, H., T. Yamauchi and M. Miyake, Dissolution and diffusion of helium in graphite 179 (1991) 227
Averback, R.S., H. Hsieh, T. Diaz de la Rubia and R. Benedek, Molecular dynamics studies of displacement cascades 179 (1991) 87

Bakker, J., see Van der Laan, J.G. 179 (1991) 270
Baldwin, D.L., O.D. Slagle and D.S. Gelles, Tritium release from irradiated beryllium at elevated temperatures 179 (1991) 329
Baldwin, D.L., see Slagle, O.D. 179 (1991) 843
Barker, M.G., J.A. Lees, T. Sample and P. Hubberstey, Corrosion of Type 316L stainless steel in Pb–17Li 179 (1991) 599
Barker, M.G., see Hubberstey, P. 179 (1991) 886
Bell, G.E.C., P.F. Tortorelli, E.A. Kenik and R.L. Klueh, An investigation of the sensitization behavior of Fe–Mn–Cr austenitic steels 179 (1991) 615
Bell, G.E.C., see Inazumi, T. 179 (1991) 619
Bellon, P., see Haider, F. 179 (1991) 1023
Benedek, R., see Averback, R.S. 179 (1991) 87
Bevolo, A.J., see Kameda, J. 179 (1991) 1034
Biggio, M., see Matera, R. 179 (1991) 485
Bolt, H. and H. Calén, Evaluation of runaway-electron effects on plasma-facing components for NET 179 (1991) 360
Bolt, H., see Kiuchi, K. 179 (1991) 282
Borgstedt, H.U. and H.D. Röhrig, Recent results on corrosion behaviour of MANET structural steel in flowing Pb–17Li eutectic 179 (1991) 596
Boutard, J.L., Structural material requirements and related R and D for ITER plasma-facing components 179 (1991) 1179
Bowers, D.A., see Davis, J.W. 179 (1991) 197
Brager, H.R., see Garner, F.A. 179 (1991) 250
Brager, H.R., see Garner, F.A. 179 (1991) 633
Brandstädter, A., K. Koizlik, J. Linke, H. Schiffers, E. Wallura and H. Nickel, Influence of thermal shocks on the strength of silicon carbide 179 (1991) 367

Breitung, W. and H. Werle, Experimental evidence for tritium release-controlling processes in lithium silicates 179 (1991) 847
Briec, M., see Roux, N. 179 (1991) 827
Broc, M., T. Flament, A. Terlain and J. Sannier, Compatibility problems in tritium breeding blankets 179 (1991) 820
Brossa, F., see Franconi, E. 179 (1991) 294
Bruemmer, S.M., see Jones, R.H. 179 (1991) 607
Bruet, M., see Roux, N. 179 (1991) 827
Brunelli, L., P. Gondi, R. Montanari and R. Coppola, Internal strains after recovery of hardness in tempered martensitic steels for fusion reactors 179 (1991) 675
Bulanova, T.M., see Shamardin, V.K. 179 (1991) 637
Burchell, T.D. and W.P. Eatherly, The effects of radiation damage on the properties of GraphNOL N3M 179 (1991) 205
Butterworth, G.J., Objectives and prospects for low-activation materials 179 (1991) 135
Butterworth, G.J., see Tupholme, K.W. 179 (1991) 684

Calén, H., see Bolt, H. 179 (1991) 360
Camposilvan, J., see Reiter, F. 179 (1991) 316
Caorlin, M., see Reiter, F. 179 (1991) 316
Carsughi, F., see Albertini, G. 179 (1991) 706
Casini, G. and J. Sannier, Research and development on liquid Pb-17Li breeder in Europe 179 (1991) 47
Changqi, S., W. Aiju and C. Qingwang, The behavior of diffusion and permeation of tritium through 316L stainless steel 179 (1991) 322
Chen, J., see Qian, J. 179 (1991) 603
Chen, J., see Qian, J. 179 (1991) 603
Chin, B.A., see Lin, H.T. 179 (1991) 1131
Chin, B.A., see Miller, T.J. 179 (1991) 263
Chin, B.A., see Rao, G.R. 179 (1991) 438
Chopra, O.K., see Hull, A.B. 179 (1991) 824
Chou, S.P. and N.M. Ghoniem, The effects of many-body interactions on point-defect generation 179 (1991) 909
Cicchetti, E., see Matera, R. 179 (1991) 485
Clausing, R.E., see Kishimoto, N. 179 (1991) 998
Clinard, Jr., F.W., see Coghlan, W.A. 179 (1991) 391
Clinard, Jr., F.W., see Mollá, J. 179 (1991) 375
Coen, V., see Conrad, R. 179 (1991) 875
Coghlan, W.A. and F.W. Clinard, Jr., Damage to Macor glass-ceramic from high-dose 14 MeV neutrons 179 (1991) 391
Conrad, R. and L. Debarberis, Irradiation facilities for testing solid and liquid blanket breeder materials with in-situ tritium release measurements in the HFR Petten 179 (1991) 1158
Conrad, R., L. Debarberis, V. Coen and T. Flament, Irradiation of liquid breeder material Pb–17Li with in-situ tritium release measurements in the LIBRETTO 2 experiment 179 (1991) 875
Coppola, R., see Albertini, G. 179 (1991) 706
Coppola, R., see Brunelli, L. 179 (1991) 675
Croessmann, C.D., see Šmid, I. 179 (1991) 169
Crutzen, Y., see Matera, R. 179 (1991) 173
Curtiss, L.A., see Tam, S.W. 179 (1991) 859

Daenner, W., see Smith, D.L. 179 (1991) 1185
Dalle Donne, M., E. Günther, G. Schumacher, G. Sordon, D. Vollath, H. Wedemeyer and H. Werle, Research and development work for the lithium orthosilicate pebbles for the Karlsruhe ceramic breeder blanket 179 (1991) 796
Davis, J.W., D.A. Bowers, F.R. Williams and J.R. Haines, Development of carbon composite property requirements for high heat flux components 179 (1991) 197
Davis, J.W., Development of an international fusion materials database 179 (1991) 1139
Debarberis, L., see Conrad, R. 179 (1991) 1158
Debarberis, L., see Conrad, R. 179 (1991) 875
De Meester, P., see Matera, R. 179 (1991) 173
Dequidt, E., J. Arroyo and M. Schirra, The mechanical behaviour of newly designed low-activation high-chromium martensitic steels 179 (1991) 659
Devillers, M., see Penzhorn, R.-D. 179 (1991) 863
Diaz de la Rubia, T., see Averback, R.S. 179 (1991) 87
Djomina, E.V., see Shamardin, V.K. 179 (1991) 637
Doan, N.V., see Haider, F. 179 (1991) 1023
Doan, N.V., see Massobrio, C. 179 (1991) 921
Dodd, R.A., see Griffin, R.D. 179 (1991) 714
Dulieu, D., see Tupholme, K.W. 179 (1991) 684
Dvorak, M., see Groot, P. 179 (1991) 370

Eatherly, W.P., see Burchell, T.D. 179 (1991) 205
Eckstein, W., see Hechtl, E. 179 (1991) 290
Eckstein, W., see Roth, J. 179 (1991) 34
Egusa, S. and T. Seguchi, Polymer composites as magnet materials: Irradiation effects and degradation mechanism of mechanical properties 179 (1991) 1111
Ehrlich, K., see Schiller, P. 179 (1991) 13
Elliott, C., M. Enmark, G.E. Lucas, G.R. Odette and A. Rowcliffe, Development of disc compact tension specimens and test techniques for HFIR irradiations 179 (1991) 434
Endoh, T., see Kiritani, M. 179 (1991) 1104
Enmark, M., see Elliott, C. 179 (1991) 434
Eto, M., see Ando, T. 179 (1991) 339
Eto, M., see Matera, R. 179 (1991) 485
Eto, M., see Suzuki, M. 179 (1991) 441
Etoh, M., see Takatsu, H. 179 (1991) 344
Ezawa, T., J. Tanimura, T. Tanabe and F.E. Fujita, The effect of helium atoms on radiation-induced segregation and precipitation in Al–Zn alloys 179 (1991) 1038
Ezawa, T., M. Sugimoto, K. Niwase, S. Sasaki, A. Iwase, T. Iwata and F.E. Fujita, Depth distribution of damage in helium-ion and proton irradiated nickel 179 (1991) 974

Farfaletti-Casali, F., see Matera, R. 179 (1991) 173
Farrell, K., see Kishimoto, N. 179 (1991) 998
Farrell, K., see Zinkle, S.J. 179 (1991) 994
Faulkner, R.G., see Waite, N.C. 179 (1991) 1065
Feuerstein, H., H. Gräbner, S. Horn and J. Oschinski, Transport of deuterium and rare gases by flowing molten Pb–17Li 179 (1991) 882
Fichtner, P.F.P., see Schroeder, H. 179 (1991) 1007
Fischer, A.K. and C.E. Johnson, Desorption of H_2O and H_2 from steel and $LiAlO_2$ by temperature programmed desorption 179 (1991) 812
Fischer, J. and P. Jung, Irradiation induced diffusion and precipitate growth in ferritic Fe(Al,Ni) 179 (1991) 1042
Flament, T., see Broc, M. 179 (1991) 820
Flament, T., see Conrad, R. 179 (1991) 875
Flament, T., see Roux, N. 179 (1991) 827
Foreman, A.J.E., see Singh, B.N. 179 (1991) 990
Franconi, E. and F. Brossa, Sputtering of TiC coating by low-energy and high flux plasma bombardment in PISCES 179 (1991) 294
Franconi, E., Magnetic particles induced by plasma disruptions in tokamaks 179 (1991) 267
Frost, III, H.M., see Mollá, J. 179 (1991) 375
Fujie, M., see Kudo, H. 179 (1991) 800
Fujiga, T., see Igata, N. 179 (1991) 656
Fujii, T., see Hiraoka, Y. 179 (1991) 275
Fujino, Y., see Abe, K. 179 (1991) 766
Fujita, F.E., see Ezawa, T. 179 (1991) 1038
Fujita, F.E., see Ezawa, T. 179 (1991) 974
Fujita, F.E., see Oshima, R. 179 (1991) 947
Fujita, H., see Takagi, I. 179 (1991) 319
Fujitsuka, M., H. Shinno, T. Tanabe and H. Shiraishi, Thermal shock experiments for carbon materials by electron beams 179 (1991) 189
Fujitsuka, M., see Hiraoka, Y. 179 (1991) 275
Fujitsuka, M., see Kitajima, M. 179 (1991) 180
Fujitsuka, M., see Shikama, T. 179 (1991) 209
Fujiwara, T., see Tokunaga, K. 179 (1991) 353
Fujiwara, T., see Tokunaga, K. 179 (1991) 356
Fukai, K., see Shiraishi, K. 179 (1991) 550
Fukaya, K., see Ando, T. 179 (1991) 339
Fukaya, K., see Suzuki, M. 179 (1991) 441
Fukaya, K., see Takatsu, H. 179 (1991) 344
Fukuda, S., see Kamezaki, H. 179 (1991) 193
Fukumoto, K., C. Kinoshita, H. Abe, K. Shinohara and M. Kutsuwada, Structure and kinetics of cascades in copper under ion and/or electron irradiation 179 (1991) 935
Fukumura, A., N. Sekimura and S. Ishino, Time development of cascades by the binary collision approximation code 179 (1991) 897
Fukushima, H., Y. Shimomura and H. Yoshida, On the nature of TEM-observed defect clusters in low-dose neutron- and ion-irradiated Cu, Ag and Au at room temperature 179 (1991) 939
Fukushima, H., Y. Shimomura, M.W. Guinan, P.A. Hahn and M. Kiritani, Annealing experiments of low temperature 14 MeV neutron-irradiated ordered and disordered Cu_3Au by TEM 179 (1991) 943
Fukuya, K., S. Nakahigashi, S. Ozaki and S. Shima, Effects of phosphorus, silicon and sulphur on microstructural evolution in austenitic stainless steels during electron irradiation 179 (1991) 1057
Fukuya, K., see Nakahigashi, S. 179 (1991) 1061
Fukuzawa, Y., see Muroga, T. 179 (1991) 259
Furubayashi, B., see Sakamoto, I. 179 (1991) 1053
Furuno, S., K. Hojou, H. Otsu, K. Izui, N. Kamigaki and T. Kino, In-situ observation of the dynamic behavior of bubbles in aluminum during 10 keV H_2^+ ion irradiation and successive annealing 179 (1991) 1011
Furuno, S., see Hojou, K. 179 (1991) 411
Furuno, S., see Kamigaki, N. 179 (1991) 970
Furuno, S., see Maeta, H. 179 (1991) 1003
Furuno, S., see Ono, K. 179 (1991) 978
Furuya, H., see Sugisaki, M. 179 (1991) 312
Furuya, K., see Kimoto, T. 179 (1991) 507

Garner, F.A. and R.J. Puigh, Irradiation creep and swelling of the fusion heats of PCA, HT9 and 9Cr–1Mo irradiated to high neutron fluence 179 (1991) 577
Garner, F.A., H.R. Brager and H. Takahashi, Neutron-induced swelling of model Fe–Cr–Mn–Ni alloys and commercial manganese-stabilized steels 179 (1991) 633
Garner, F.A., H.R. Brager and K.R. Anderson, Neutron-induced changes in density and electrical conductivity of copper alloys at 16 to 98 dpa and 430 °C 179 (1991) 250
Garner, F.A., M.L. Hamilton, R.L. Simons and M.K. Maxon, Isotopic tailoring with ^{59}Ni to study the influence of helium/dpa ratio on tensile property changes 179 (1991) 554
Garner, F.A., New developments in fusion materials research using surrogate neutron spectra 179 (1991) 111
Garner, F.A., see Hamilton, M.L. 179 (1991) 558
Garner, F.A., see Hoyt, J.J. 179 (1991) 1096
Garner, F.A., see Kawanishi, H. 179 (1991) 511
Garner, F.A., see Loomis, B.A. 179 (1991) 771
Garner, F.A., see Muroga, T. 179 (1991) 546
Garner, F.A., see Ohnuki, S. 179 (1991) 775
Garner, F.A., see Okada, A. 179 (1991) 445
Garner, F.A., see Porter, D.L. 179 (1991) 581
Garner, F.A., see Stubbins, J.F. 179 (1991) 523
Gauthier, E., see Roth, J. 179 (1991) 34
Gelles, D.S., see Baldwin, D.L. 179 (1991) 329
Gelles, D.S., see Griffin, R.D. 179 (1991) 714
Gelles, D.S., see Kohno, Y. 179 (1991) 725
Gelles, D.S., see Ohnuki, S. 179 (1991) 775
Ghoniem, N.M., Theory of microstructure evolution under fusion neutron irradiation 179 (1991) 99
Ghoniem, N.M., see Chou, S.P. 179 (1991) 909
Gondi, P., see Brunelli, L. 179 (1991) 675
Gotoh, A., see Hayakawa, H. 179 (1991) 693
Gräbner, H., see Feuerstein, H. 179 (1991) 882
Griffin, R.D., D.S. Gelles, R.A. Dodd and G.L. Kulcinski, Phase stability of a

manganese-stabilized low-activation martensitic steel 179 (1991) 714
Groot, P., J.G. Van der Laan, M. Mack, M. Dvorak and P. Huber, Plasma-sprayed titanium carbide coatings for first-wall applications in fusion devices 179 (1991) 370
Grossbeck, M.L. and L.K. Mansur, Low-temperature irradiation creep of fusion reactor structural materials 179 (1991) 130
Grossbeck, M.L., Empirical relations for tensile properties of austenitic stainless steels irradiated in mixed-spectrum reactors 179 (1990) 568
Grossbeck, M.L., see Jitsukawa, S. 179 (1991) 563
Grossbeck, M.L., see Rowcliffe, A.F. 179 (1991) 125
Guinan, M.W., see Fukushima, H. 179 (1991) 943
Guinan, M.W., see Hahn, P.A. 179 (1991) 1127
Guinan, M.W., see Nishiguchi, R. 179 (1991) 1073
Guinan, M.W., see Takehana, S. 179 (1991) 1092
Günther, E., see Dalle Donne, M. 179 (1991) 796
Guseva, M., see Seki, M. 179 (1991) 1189

Haasz, A.A., see Kushita, K.N. 179 (1991) 235
Hahn, P.A., M.W. Guinan, L.T. Summers, T. Okada and D.B. Smathers, Fusion neutron irradiation effects in commercial Nb_3Sn superconductors 179 (1991) 1127
Hahn, P.A., see Fukushima, H. 179 (1991) 943
Hahn, P.A., see Nishiguchi, R. 179 (1991) 1073
Haider, F., P. Bellon, N.V. Doan and G. Martin, Stochastic description of compound stability under irradiation: Temperature, flux and cascade size effects 179 (1991) 1023
Haines, J.R., see Davis, J.W. 179 (1991) 197
Hakozaki, K., see Takehana, S. 179 (1991) 1092
Hamada, K., see Kiritani, M. 179 (1991) 1104
Hamada, K., see Kohyama, A. 179 (1991) 417
Hamada, S., M. Suzuki, P.J. Maziasz and A. Hishinuma, Microstructural evolution in austenitic stainless steels irradiated to 57 dpa in HFIR 179 (1991) 515
Hamada, S., see Hojou, K. 179 (1991) 496
Hamada, S., see Miyahara, K. 179 (1991) 652
Hamaguchi, Y., see Misawa, T. 179 (1991) 421
Hamaguchi, Y., see Suzuki, M. 179 (1991) 441
Hamilton, M.L., A. Okada and F.A. Garner, Tensile behavior and swelling of ternary austenitic alloys irradiated in different neutron spectra 179 (1991) 558
Hamilton, M.L., see Garner, F.A. 179 (1991) 554
Hamilton, M.L., see Okada, A. 179 (1991) 445
Hasegawa, M., see Kuramoto, E. 179 (1991) 202
Hasegawa, M., see Yoshiie, T. 179 (1991) 931
Hashiguchi, A., see Takao, Y. 179 (1991) 298
Hashimoto, K., see Ogawa, M. 179 (1991) 449
Hastings, I.J., see Verrall, R.A. 179 (1991) 855
Hayakawa, H., A. Yoshitake, M. Tamura, S. Natsume, A. Gotoh and A. Hishinuma, Mechanical properties of welded joints of the reduced-activation ferritic steel: 8% Cr–2% W–0.2% V–0.04% Ta–Fe 179 (1991) 693
Hayashi, N., see Kobayashi, N. 179 (1991) 469
Hayashi, N., see Sakamoto, I. 179 (1991) 1053
Heatherly, Jr., L., see Kishimoto, N. 179 (1991) 998
Hechtl, E., W. Eckstein, J. Roth and J. Laszlo, Sputtering of tungsten by oxygen at temperatures up to 1900 K 179 (1991) 290
Heidinger, R., Design parameters of ceramic insulator materials for fusion reactors 179 (1991) 64
Heinisch, H.L. and B.N. Singh, The morphology of collision cascades as a function of recoil energy 179 (1991) 893
Heinisch, H.L., see Horsewell, A. 179 (1991) 924
Heinisch, H.L., see Kojima, S. 179 (1991) 982
Heinisch, H.L., see Woo, C.H. 179 (1991) 951
Heinisch, H.L., see Yoshida, N. 179 (1991) 1078
Henager, Jr., C.H., see Jones, R.H. 179 (1991) 607
Higashi, K., see Takagi, I. 179 (1991) 319
Higuchi, T., see Abe, K. 179 (1991) 766
Hiraki, N., see Tokunaga, K. 179 (1991) 356
Hiraoka, Y., M. Fujitsuka and T. Fujii, Application of tungsten single crystals for fusion reactors 179 (1991) 275
Hishinuma, A., see Hamada, S. 179 (1991) 515
Hishinuma, A., see Hayakawa, H. 179 (1991) 693
Hishinuma, A., see Hojou, K. 179 (1991) 496
Hishinuma, A., see Jitsukawa, S. 179 (1991) 538
Hishinuma, A., see Jitsukawa, S. 179 (1991) 563
Hishinuma, A., see Kiuchi, K. 179 (1991) 477
Hishinuma, A., see Rowcliffe, A.F. 179 (1991) 125
Hishinuma, A., see Sawai, T. 179 (1991) 519
Hishinuma, A., see Suzuki, M. 179 (1991) 718
Hiwatashi, S., Y. Kohno, K. Asakura and A. Kohyama, Microstructural developments in Fe–Cr–W low activation ferritic steels under dual beam charged particle irradiation 179 (1991) 709
Hodgson, E.R., Radiation-enhanced electrical breakdown in fusion insulators 179 (1991) 383
Hojou, K., S. Furuno, T. Soga and K. Izui, New in-situ parallel-detection electron energy-loss spectroscopy of SiC crystals irradiated with hydrogen ions 179 (1991) 411
Hojou, K., S. Jitsukawa, M. Suzuki, S. Hamada and A. Hishinuma, Application of electron energy loss spectroscopy to microchemical analysis of Ti-modified austenitic stainless steel irradiated in HFIR 179 (1991) 496
Hojou, K., see Furuno, S. 179 (1991) 1011
Hojou, K., see Jitsukawa, S. 179 (1991) 538
Hojou, K., see Kamigaki, N. 179 (1991) 970
Hojou, K., see Maeta, H. 179 (1991) 1003
Hojou, K., see Ono, K. 179 (1991) 978
Hollenberg, G.W., see Slagle, O.D. 179 (1991) 843
Honda, S., see Oshima, R. 179 (1991) 947
Horn, S., see Feuerstein, H. 179 (1991) 882
Horsewell, A., B.N. Singh, S. Proennecke, W.F. Sommer and H.L. Heinisch, Defect structures in copper and gold irradiated with fast neutrons, 14 MeV neutrons and 600–800 MeV protons 179 (1991) 924
Hoshiya, T., S. Shimakawa, Y. Ichihashi, M. Nishikawa and K. Watanabe, Fast neu-

tron irradiation of Ti–Ni shape memory alloys 179 (1991) 1119
Hoshiya, T., see Nishikawa, M. 179 (1991) 1115
Hosoi, Y., A proposal to alloy design for low activation high manganese austenitic stainless steel – Role of carbon and nitrogen 179 (1991) 143
Hosoi, Y., see Kunimitsu, S. 179 (1991) 689
Hosoi, Y., see Miyahara, K. 179 (1991) 652
Hosoi, Y., see Miyahara, K. 179 (1991) 667
Hoyt, J.J. and F.A. Garner, The solute dependence of bias factors in irradiated Fe–Ni alloys 179 (1991) 1096
Hsieh, H., see Averback, R.S. 179 (1991) 87
Hua, G.C., see Oshima, R. 179 (1991) 947
Hubberstey, P., T. Sample and M.G. Barker, Continuous monitoring of the composition of liquid Pb–17Li eutectic using electrical resistivity methods 179 (1991) 886
Hubberstey, P., see Barker, M.G. 179 (1991) 599
Huber, P., see Groot, P. 179 (1991) 370
Hudman, G.D., see Porter, D.L. 179 (1991) 581
Hull, A.B., O.K. Chopra, B. Loomis and D. Smith, Compatibility between vanadium-base alloys and flowing lithium: Partitioning of hydrogen at elevated temperatures 179 (1991) 824
Hull, A.B., see Loomis, B.A. 179 (1991) 148

Ibarra, A., see Mollá, J. 179 (1991) 375
Ichigi, T., see Sugisaki, M. 179 (1991) 312
Ichihashi, Y., see Hoshiya, T. 179 (1991) 1119
Igata, N., T. Fujiga and H. Yumoto, Decrease of ductility due to hydrogen in Fe–Cr–Mn austenitic steel 179 (1991) 656
Igata, N., T. Nagato and H. Yumoto, Cavity formation by thermal treatment in ODS steel 179 (1991) 279
Igawa, N., see Ohno, H. 179 (1991) 473
Inazumi, T., G.E.C. Bell and K. Kiuchi, Electrochemical evaluation of sensitization in austenitic stainless steels using miniaturized specimens 179 (1991) 619
Iseki, T., see Sasaki, K. 179 (1991) 407
Iseki, T., see Yano, T. 179 (1991) 387
Ishida, I., S. Sasaki, T. Yoshiie, A. Iwase, T. Iwata and M. Kiritani, Analysis of the sub-cascade structure in copper produced by ion irradiations 179 (1991) 913
Ishida, I., see Okada, A. 179 (1991) 1083
Ishii, Y., see Noda, K. 179 (1991) 835
Ishimoto, S., see Nakamura, Y. 179 (1991) 749
Ishino, S., T. Kondo and M. Okada, History, present status and future of fusion reactor materials research in Japan 179 (1991) 3
Ishino, S., see Fukumura, A. 179 (1991) 897
Ishino, S., see Iwata, S. 179 (1991) 1135
Ishino, S., see Kawanishi, H. 179 (1991) 534
Ishino, S., see Sakaida, H. 179 (1991) 928
Ishino, S., see Sekimura, N. 179 (1991) 542
Ishiyama, T., see Kiuchi, K. 179 (1991) 477
Isobe, Y., see Asai, Y. 179 (1991) 1050
Ito, K., see Ono, K. 179 (1991) 978
Ito, Y., see Asaoka, Y. 179 (1991) 879
Ito, Y., see Moriyama, H. 179 (1991) 839
Itoh, M., see Kinoshita, H. 179 (1991) 722
Itoh, S., see Tokunaga, K. 179 (1991) 353
Itoh, S., see Tokunaga, K. 179 (1991) 356
Ivanov, L.I., see Shamardin, V.K. 179 (1991) 637
Iwase, A., see Ezawa, T. 179 (1991) 974
Iwase, A., see Ishida, I. 179 (1991) 913
Iwata, S., T. Ashino and S. Ishino, Materials database for materials design 179 (1991) 1135
Iwata, T., see Ezawa, T. 179 (1991) 974
Iwata, T., see Ishida, I. 179 (1991) 913
Izui, K., see Furuno, S. 179 (1991) 1011
Izui, K., see Hojou, K. 179 (1991) 411
Izui, K., see Kamigaki, N. 179 (1991) 970
Izui, K., see Ono, K. 179 (1991) 978

Janssens, W., see Matera, R. 179 (1991) 173
Jiapu, Q., see Jiguang, S. 179 (1991) 526
Jiguang, S., Q. Jiapu, Z. Zhuoyong, C. Jiming and X. Zengyu, Electron irradiation damage in austenitic stainless steels 179 (1991) 526
Jiménez de Castro, M., see Mollá, J. 179 (1991) 375
Jiming, C., see Jiguang, S. 179 (1991) 526
Jitsukawa, S., K. Hojou and A. Hishinuma, Effect of phosphorus and boron additions on helium bubble microstructure in titanium-modified austenitic stainless steels 179 (1991) 538
Jitsukawa, S., M.L. Grossbeck and A. Hishinuma, Stress–strain relations of HFIR-irradiated austenitic stainless steels 179 (1991) 563
Jitsukawa, S., see Hojou, K. 179 (1991) 496
Jitsukawa, S., see Rowcliffe, A.F. 179 (1991) 125
Johnson, C., see Roux, N. 179 (1991) 827
Johnson, C.E., Research and development status of ceramic breeder materials 179 (1991) 42
Johnson, C.E., see Fischer, A.K. 179 (1991) 812
Johnson, C.E., see Kopasz, J.P. 179 (1991) 816
Johnson, C.E., see Tam, S.W. 179 (1991) 859
Jones, R.H., S.M. Bruemmer and C.H. Henager, Jr., Stress-corrosion cracking issues related to a water-cooled ITER 179 (1991) 607
Jung, P. and H. Klein, Influence of minor elements on the dimensional stability of austenitic stainless steels under proton irradiation 179 (1991) 503
Jung, P., Investigations on creep and microstructure in proton-irradiated DIN 1.4914 martensitic stainless steel 179 (1991) 745
Jung, P., see Fischer, J. 179 (1991) 1042

Kaga, S., T. Tamura, H. Yoshida and K. Miyata, Effects of neutron irradiation on strength of fusion reactor materials and their electron beam welded joints 179 (1991) 588
Kalinin, G., see Smith, D.L. 179 (1991) 1185
Kalinin, G.M., High-Z plasma-facing and related materials 179 (1991) 1193
Kamada, K., see Yoshizawa, I. 179 (1991) 787
Kameda, J., X. Mao and A.J. Bevolo, Intergranular impurity segregation and embrittlement in neutron-irradiated iron alloys 179 (1991) 1034

Kamezaki, H., K. Tokunaga, S. Fukuda, N. Yoshida and T. Muroga, Pulse high heat flux experiment with laser beams on graphite 179 (1991) 193
Kamigaki, N., S. Furuno, K. Hojou, K. Izui and T. Kino, Evolution of structural damage in high-purity aluminum alloys during ion irradiation and the following heat treatments 179 (1991) 970
Kamigaki, N., see Furuno, S. 179 (1991) 1011
Kanazawa, H., see Zinkle, S.J. 179 (1991) 994
Kanda, Y., see Takao, Y. 179 (1991) 298
Kasahara, S., K. Nakata, H. Takahashi, S. Ohnuki and J. Kuniya, Effect of additional elements on cavity formation near grain boundary in proton-irradiated austenitic stainless steels 179 (1991) 500
Kasahara, S., see Nakata, K. 179 (1991) 403
Kasuya, N., see Kunimitsu, S. 179 (1991) 689
Katano, Y., see Nakata, K. 179 (1991) 403
Katano, Y., see Yoshizawa, I. 179 (1991) 787
Kato, T., H. Takahashi, S. Ohnuki, K. Nakata and J. Kuniya, The effect of solute content on grain boundary segregation in electron-irradiated Fe–Cr–Mn alloys 179 (1991) 623
Kato, Y., see Noda, K. 179 (1991) 1147
Kawai, M., see Nishikawa, M. 179 (1991) 1115
Kawakami, A., see Shinohara, K. 179 (1991) 246
Kawamoto, A., see Tanaka, S. 179 (1991) 867
Kawamura, H., see Ohno, H. 179 (1991) 473
Kawamura, K., see Saka, H. 179 (1991) 966
Kawanishi, H. and S. Ishino, Characterization of microstructure at 673 K in neutron-irradiated Fe–16Ni–15Cr with the addition of C, Ti and Nb 179 (1991) 534
Kawanishi, H., F.A. Garner and R.L. Simons, Synergistic effects of helium and other variables on microstructure change in neutron-irradiated Fe–Ni–Cr alloys doped with ^{59}Ni 179 (1991) 511
Kayano, H., A. Kimura, M. Narui, T. Kikuchi and S. Ohta, Effects of small changes in alloy composition on the mechanical properties of low activation 9%Cr–2%W steel 179 (1991) 671
Kayano, H., H. Kurishita, A. Kimura, M. Narui, M. Yamazaki and Y. Suzuki, Charpy impact testing using miniature specimens and its application to the study of irradiation behavior of low-activation ferritic steels 179 (1991) 425
Kayano, H., see Kimura, A. 179 (1991) 737
Kayano, H., see Kimura, A. 179 (1991) 741
Kayano, H., see Kiritani, M. 179 (1991) 1104
Kayano, H., see Miyahara, K. 179 (1991) 652
Kayano, H., see Satou, M. 179 (1991) 757
Kayano, H., see Shikama, T. 179 (1991) 209
Kayano, H., see Shikama, T. 179 (1991) 465
Kayano, H., see Yoshida, H. 179 (1991) 644
Kenik, E.A., see Bell, G.E.C. 179 (1991) 615
Kennedy, III, J.C., see Mollá, J. 179 (1991) 375
Kesternich, W. and R.V. Nandedkar, Co-precipitation of $M_{23}C_6$ and MC type carbide under the influence of irradiation 179 (1991) 1015
Kikuchi, H., see Mizubayashi, H. 179 (1991) 585
Kikuchi, M., see Kiuchi, K. 179 (1991) 282
Kikuchi, M., see Kiuchi, K. 179 (1991) 481
Kikuchi, T., see Kayano, H. 179 (1991) 671
Kikuchi, T., see Noda, K. 179 (1991) 1147
Kimoto, T., K. Furuya and H. Shiraishi, Compositional dependence of dislocation loop development and microstructures in austenitic Fe–Ni–Cr alloys under proton irradiation 179 (1991) 507
Kimura, A., H. Kayano and M. Narui, Effects of neutron irradiation on hydrogen-induced intergranular fracture in a low activation 9%Cr–2%W steel 179 (1991) 737
Kimura, A., H. Kayano and S. Ohta, Irradiation-induced suppression of creep in a low activation 9%Cr-2%W steel 179 (1991) 741
Kimura, A., see Kayano, H. 179 (1991) 425
Kimura, A., see Kayano, H. 179 (1991) 671
Kino, T., see Furuno, S. 179 (1991) 1011
Kino, T., see Kamigaki, N. 179 (1991) 970
Kino, T., see Ono, K. 179 (1991) 978
Kinoshita, C., Characteristics of microstructural evolution of radiation damage in ceramics under fusion environment 179 (1991) 53
Kinoshita, C., see Abe, H. 179 (1991) 917
Kinoshita, C., see Asai, Y. 179 (1991) 1050
Kinoshita, C., see Fukumoto, K. 179 (1991) 935
Kinoshita, C., see Matsunaga, A. 179 (1991) 457
Kinoshita, C., see Nakai, K. 179 (1991) 1046
Kinoshita, C., see Satoh, Y. 179 (1991) 399
Kinoshita, H., N. Akasaka, H. Takahashi, M. Itoh and S. Onose, Development of damage structure in oxide dispersion strengthened steels 179 (1991) 722
Kinoshita, H., see Takahashi, H. 179 (1991) 629
Kiritani, M., T. Endoh, K. Hamada, T. Yoshiie, A. Okada, S. Kojima, Y. Satoh and H. Kayano, Fission reactor irradiation of materials with improved control of neutron flux–temperature history 179 (1991) 1104
Kiritani, M., Recoil energy spectrum effects and point defect processes characteristic of cascades 179 (1991) 81
Kiritani, M., see Fukushima, H. 179 (1991) 943
Kiritani, M., see Ishida, I. 179 (1991) 913
Kiritani, M., see Matsuda, M. 179 (1991) 962
Kiritani, M., see Matsui, H. 179 (1991) 461
Kiritani, M., see Nishiguchi, R. 179 (1991) 1073
Kiritani, M., see Okada, A. 179 (1991) 1083
Kiritani, M., see Satoh, Y. 179 (1991) 901
Kiritani, M., see Yoshida, N. 179 (1991) 1078
Kiritani, M., see Yoshiie, T. 179 (1991) 931
Kiritani, M., see Yoshiie, T. 179 (1991) 954
Kishimoto, N., R.E. Clausing, L. Heatherly, Jr. and K. Farrell, Helium gas release due to grain boundary fracture in neutron-irradiated high-nickel austenitic alloys and a ferritic steel 179 (1991) 998
Kitajima, M., K. Nakamura, M. Fujitsuka,

H. Shinno, T. Tanabe and M. Yumoto, Study of Raman spectroscopy on carbon materials irradiated with a high current density electron beam 179 (1991) 180
Kitajima, S., see Nakamura, Y. 179 (1991) 749
Kitajima, S., see Shinohara, K. 179 (1991) 246
Kitamura, A., see Nakajima, T. 179 (1991) 349
Kiuchi, K., M. Kikuchi and T. Kondo, A new type of low temperature sensitization of austenitic stainless steels enhanced with defect–solute interactions 179 (1991) 481
Kiuchi, K., M. Kikuchi, H. Bolt, M. Araki and M. Seki, Response of stainless steels to plasma disruptions by simulation experiments with an intense hydrogen beam 179 (1991) 282
Kiuchi, K., T. Ishiyama and A. Hishinuma, Alloy development for first wall materials used in water-cooling type fusion reactors 179 (1991) 477
Kiuchi, K., see Inazumi, T. 179 (1991) 619
Klein, H., see Jung, P. 179 (1991) 503
Klippel, H.T., see Van der Laan, J.G. 179 (1991) 184
Klippel, H.T., see Van der Laan, J.G. 179 (1991) 270
Klueh, R.L. and D.J. Alexander, Impact behavior of 9Cr–1MoVNb and 12Cr–1MoVW steels irradiated in HFIR 179 (1991) 733
Klueh, R.L., P.J. Maziasz and D.J. Alexander, Heat-treatment effect on impact properties of reduced-activation steels 179 (1991) 679
Klueh, R.L., Irradiation hardening of ferritic steels: Effect of composition 179 (1991) 728
Klueh, R.L., see Bell, G.E.C. 179 (1991) 615
Kneringer, G., see Šmid, I. 179 (1991) 169
Kny, E., see Šmid, I. 179 (1991) 169
Kobayashi, H., see Kobayashi, N. 179 (1991) 469
Kobayashi, N., H. Kobayashi, I. Sakamoto and N. Hayashi, Helium irradiation effects on structural properties of AlN thin films 179 (1991) 469
Kobayashi, T., see Takatsu, H. 179 (1991) 344
Kobayashi, Y., see Miyahara, K. 179 (1991) 667
Kodaira, T., see Suzuki, M. 179 (1991) 441
Kodaka, H., see Yoshida, H. 179 (1991) 640
Kodama, K., see Ando, T. 179 (1991) 339
Kodama, M., see Nakahigashi, S. 179 (1991) 1061
Koga, S., see Takatsu, H. 179 (1991) 344
Kohno, Y., A. Kohyama and D.S. Gelles, Microstructural examination of FFTF-irradiated manganese-stabilized martensitic stainless steel 179 (1991) 725
Kohno, Y., see Hiwatashi, S. 179 (1991) 709
Kohyama, A., K. Hamada and H. Matsui, Specimen size effects on tensile properties of neutron- irradiated steels 179 (1991) 417
Kohyama, A., S. Sato, H. Tezuka and M. Kondo, Effects of neutron irradiation on metal matrix composites 179 (1991) 254
Kohyama, A., see Hiwatashi, S. 179 (1991) 709
Kohyama, A., see Kohno, Y. 179 (1991) 725
Koizlik, K., J. Linke and H. Nickel, Neutron irradiation test matrix for carbon-based materials for the first wall of fusion reactors 179 (1991) 1100
Koizlik, K., see Brandstädter, A. 179 (1991) 367
Kojima, S., S.J. Zinkle and H.L. Heinisch, Radiation hardening in neutron-irradiated polycrystalline copper: Barrier strength of defect clusters 179 (1991) 982
Kojima, S., see Kiritani, M. 179 (1991) 1104
Kojima, S., see Satoh, Y. 179 (1991) 901
Kojima, S., see Yoshiie, T. 179 (1991) 931
Kojima, S., see Yoshiie, T. 179 (1991) 954
Kojima, S., see Zinkle, S.J. 179 (1991) 395
Kondo, M., see Kohyama, A. 179 (1991) 254
Kondo, M., see Nishikawa, M. 179 (1991) 1115
Kondo, T., see Ishino, S. 179 (1991) 3
Kondo, T., see Kiuchi, K. 179 (1991) 481
Kondo, T., see Noda, K. 179 (1991) 1147
Koori, N., see Sugisaki, M. 179 (1991) 312
Kopasz, J.P., S.W. Tam and C.E. Johnson, Enhanced tritium transport and release by solids modification 179 (1991) 816
Kudo, H., S. O'hira, M. Fujie and K. Noda, Interaction of tritium gas with Li_2O crystals and dissolution processes 179 (1991) 800
Kulcinski, G.L., see Griffin, R.D. 179 (1991) 714
Kumabe, I., see Sugisaki, M. 179 (1991) 312
Kummerer, K.R. and H.-J. Ritzhaupt-Kleissl, Comparative irradiation of different lithium ceramics 179 (1991) 831
Kunimitsu, S., Y. You, N. Kasuya, Y. Sasaki and Y. Hosoi, Effect of thermo-mechanical treatment on toughness of 9Cr–W ferritic–martensitic steels during aging 179 (1991) 689
Kuniya, J., see Kasahara, S. 179 (1991) 500
Kuniya, J., see Kato, T. 179 (1991) 623
Kuniya, J., see Nakata, K. 179 (1991) 403
Kuramoto, E., M. Takenaka, M. Hasegawa and T. Tanabe, Positron annihilation study of irradiation effects on graphites 179 (1991) 202
Kuramoto, E., Computer simulation of void swelling in metals and alloys 179 (1991) 1019
Kurasawa, T. and H. Watanabe, The influence of surface phenomena on in-situ tritium release from lithium oxide 179 (1991) 851
Kurimoto, K., see Ogawa, M. 179 (1991) 449
Kurishita, H., see Kayano, H. 179 (1991) 425
Kurisu, S., see Takao, Y. 179 (1991) 298
Kurokawa, K., K.-y. Aota and H. Takahashi, Compatibility of a V–15Cr–5Ti alloy with SiC at high temperatures 179 (1991) 762
Kushita, K.N., I. Youle, A.A. Haasz and J.A. Sawicki, Tritium diffusion in pseudo-monocrystal graphite, observed with a tritium imaging camera 179 (1991) 235
Kutsuwada, M., see Fukumoto, K. 179 (1991) 935
Kutsuwada, M., see Shinohara, K. 179 (1991) 246

Laszlo, J., see Hechtl, E. 179 (1991) 290
Laszlo, J., see Roth, J. 179 (1991) 34
Lee, E.H., see Mansur, L.K. 179 (1991) 105
Lees, J.A., see Barker, M.G. 179 (1991) 599
Lefevre, F., see Alberman, A. 179 (1991) 1154

Lin, H.T. and B.A. Chin, The feasibility of welding irradiated materials 179 (1991) 1131
Lindau, R. and A. Möslang, Low-cycle fatique properties of the helium-implanted 12% Cr steel 1.4914 (MANET) 179 (1991) 753
Linke, J., see Brandstädter, A. 179 (1991) 367
Linke, J., see Koizlik, K. 179 (1991) 1100
Little, E.A., see Waite, N.C. 179 (1991) 1065
Loomis, B., see Hull, A.B. 179 (1991) 824
Loomis, B.A. and D.L. Smith, Response of unirradiated and neutron-irradiated vanadium alloys to Charpy-impact loading 179 (1991) 783
Loomis, B.A., A.B. Hull and D.L. Smith, Evaluation of low-activation vanadium alloys for use as structural material in fusion reactors 179 (1991) 148
Loomis, B.A., D.L. Smith and F.A. Garner, Swelling of neutron-irradiated vanadium alloys 179 (1991) 771
Loomis, B.A., see Ohnuki, S. 179 (1991) 775
Lucas, G.E., see Elliott, C. 179 (1991) 434
Lucas, G.E., see McNaney, J. 179 (1991) 429
Lucas, G.E., see Odette, G.R. 179 (1991) 572

MacDonald, D.S., see Verrall, R.A. 179 (1991) 855
Macht, M.-P., see Müller, A. 179 (1991) 958
Macht, M.-P., see Tyagi, A.K. 179 (1991) 1026
Mack, M., see Groot, P. 179 (1991) 370
Maeda, H., see Nakajima, T. 179 (1991) 349
Maeta, H., S. Furuno, K. Hojou, H. Otsu and M. Watanabe, In-situ observation of bubble formation in superconducting $YBa_2Cu_3O_{7-\delta}$ during He-ion irradiation in an electron microscope 179 (1991) 1003
Maizza, G., see Zucchetti, M. 179 (1991) 1123
Mansur, L.K. and E.H. Lee, Theoretical basis for unified analysis of experimental data and design of swelling-resistant alloys 179 (1991) 105
Mansur, L.K., see Grossbeck, M.L. 179 (1991) 130
Mao, X., see Kameda, J. 179 (1991) 1034
Marmy, P,, R. Yuzhen and M. Victoria, The tensile and fatigue properties of Type 1.4914 ferritic steel for fusion reactor applications 179 (1991) 697
Martin, G., see Haider, F. 179 (1991) 1023
Martin, G., see Massobrio, C. 179 (1991) 921
Marukawa, Y., see Nishikawa, S. 179 (1991) 176
Maruyama, T., see Sasaki, K. 179 (1991) 407
Massobrio, C., V. Pontikis, N.V. Doan and G. Martin, Disorder-induced amorphization of intermetallic compounds: A molecular dynamics study 179 (1991) 921
Masson, M., see Alberman, A. 179 (1991) 1154
Masson, M., see Roux, N. 179 (1991) 827
Matera, R., M. Merola, M. Biggio, E. Cicchetti, V. Renda and M. Eto, Behaviour of first-wall components under thermal fatigue 179 (1991) 485
Matera, R., W. Janssens, Y. Crutzen, F. Farfaletti-Casali and P. De Meester, Design optimization study of an innovative concept of divertor plate based on fibre composite technology 179 (1991) 173
Materna-Morris, E., see Anderko, K. 179 (1991) 492
Matsuda, M., N. Yoshida, T. Muroga and M. Kiritani, Modification of microstructures induced by temperature variation during irradiation with 14 MeV neutrons 179 (1991) 962
Matsui, H., K. Nesaki and M. Kiritani, Neutron irradiation damage in transition metal carbides 179 (1991) 461
Matsui, H., see Kohyama, A. 179 (1991) 417
Matsui, H., see Noda, K. 179 (1991) 835
Matsui, H., see Takehana, S. 179 (1991) 1092
Matsui, H., see Yano, S. 179 (1991) 779
Matsunaga, A., C. Kinoshita, K. Nakai and Y. Tomokiyo, Radiation-induced amorphization and swelling in ceramics 179 (1991) 457
Matsuo, H., see Noda, K. 179 (1991) 1147
Matsuoka, M., see Takagi, I. 179 (1991) 319
Maxon, M.K., see Garner, F.A. 179 (1991) 554
Maziasz, P.J., see Hamada, S. 179 (1991) 515
Maziasz, P.J., see Klueh, R.L. 179 (1991) 679
Maziasz, P.J., see Sawai, T. 179 (1991) 519
Maziasz, P.J., see Suzuki, M. 179 (1991) 718
McCarthy, J.M., Phase evolution during neutron irradiation of commercial Fe–Cr–Mn alloys 179 (1991) 626
McNaney, J., G.E. Lucas and G.R. Odette, Application of ball punch tests to evaluating fracture mode transition in ferritic steels 179 (1991) 429
Medda, E., see Zucchetti, M. 179 (1991) 1123
Merola, M., see Matera, R. 179 (1991) 485
Miller, J.M., see Verrall, R.A. 179 (1991) 855
Miller, T.J., S.J. Zinkle and B.A. Chin, Strength and fatigue of dispersion-strengthened copper 179 (1991) 263
Misawa, T., K. Suzuki, M. Saito and Y. Hamaguchi, Determination of the minimum quantity of irradiated ferritic steel specimens for small punch DBTT testing 179 (1991) 421
Misawa, T., T. Ohtsuka, M. Seo and M. Saito, Comparison of stress corrosion cracking susceptibility of austenitic and ferritic stainless steels in small punch testing 179 (1991) 611
Misawa, T., see Suzuki, M. 179 (1991) 441
Miyahara, A. and J.B. Whitley, Thermal effects and other critical issues of plasma-facing components 179 (1991) 19
Miyahara, K., Y. Kobayashi and Y. Hosoi, Effects of W and Mn on the mechanical properties, microstructure and aging behaviors of 10% Cr ferritic steels considered as reduced radio-activation materials 179 (1991) 667
Miyahara, K., Y. Sakamoto, S. Hamada, H. Kayano and Y. Hosoi, Microstructure and mechanical properties of α-particle irradiated Cr–Mn and the other stainless steels 179 (1991) 652
Miyake, M., see Atsumi, H. 179 (1991) 227
Miyake, M., see Nishikawa, S. 179 (1991) 176
Miyake, M., see Shirasu, Y. 179 (1991) 223
Miyake, M., see Yamanaka, S. 179 (1991) 303
Miyake, M., see Yamauchi, T. 179 (1991) 308
Miyamoto, Y., see Niwase, K. 179 (1991) 214

Miyamoto, Y., see Tokunaga, K. 179 (1991) 356
Miyata, K., see Kaga, S. 179 (1991) 588
Miyata, K., see Yoshida, H. 179 (1991) 644
Miyata, K., see Yoshida, H. 179 (1991) 640
Miyazaki, K., see Nunogaki, M. 179 (1991) 286
Mizubayashi, H., C. Yan, H. Kikuchi, S. Okuda and Y. Tagishi, Effects of in-situ pulse irradiation of 20 MeV protons and thermal pulses on the fatigue properties of low-carbon 316 stainless steel 179 (1991) 585
Mizuno, K., see Ono, K. 179 (1991) 978
Mohri, H., see Terai, T. 179 (1991) 808
Mollá, J., A. Ibarra, H.M. Frost, III, F.W. Clinard, Jr., J.C. Kennedy, III and M. Jiménez de Castro, The effect of ZrO_2 doping on mechanical and dielectric properties of Al_2O_3 and $MgAl_2O_4$ 179 (1991) 375
Montanari, R., see Brunelli, L. 179 (1991) 675
Morito, F. and K. Shiraishi, Mechanical properties and neutron-irradiation effects in the welds of molybdenum and its alloys 179 (1991) 592
Moriyama, H., A. Okada, Y. Asaoka and Y. Ito, The interactions of tritium with irradiation defects in solid breeder materials 179 (1991) 839
Moriyama, H., see Asaoka, Y. 179 (1991) 879
Morozumi, S., see Abe, K. 179 (1991) 1088
Morozumi, Y., see Saka, H. 179 (1991) 966
Möslang, A., see Lindau, R. 179 (1991) 753
Müller, A., M.-P. Macht and V. Naundorf, Determination of sink concentrations in ion irradiated nickel and copper by diffusion measurements 179 (1991) 958
Murata, Y., see Muroga, T. 179 (1991) 259
Muroga, T., F.A. Garner and S. Ohnuki, Microstructural investigation of swelling dependence on nickel content in fast neutron-irradiated Fe–Cr–Ni austenitic ternaries 179 (1991) 546
Muroga, T., Y. Aono, N. Yoshida, Y. Murata and Y. Fukuzawa, Microstructure, microchemistry and strength of insulating ceramics joined to a fusion candidate austenitic steel by diffusion bonding 179 (1991) 259
Muroga, T., see Kamezaki, H. 179 (1991) 193
Muroga, T., see Matsuda, M. 179 (1991) 962
Muroga, T., see Tokunaga, K. 179 (1991) 353
Muroga, T., see Tokunaga, K. 179 (1991) 356
Muroga, T., see Watanabe, H. 179 (1991) 529
Muroga, T., see Yoshida, N. 179 (1991) 1078

Nagai, S., see Terai, T. 179 (1991) 871
Nagakawa, J., N. Yamamoto and H. Shiraishi, Computer simulation of early-stage irradiation creep 179 (1991) 986
Naganuma, M., see Nishikawa, M. 179 (1991) 1115
Nagasaki, T., R. Yamada and H. Ohno, Permeation of deuterium implanted into copper 179 (1991) 335
Nagasaki, T., see Ohno, H. 179 (1991) 473
Nagase, F., see Abe, K. 179 (1991) 1088
Nagato, T., see Igata, N. 179 (1991) 279
Nakahigashi, S., M. Kodama, K. Fukuya, S. Nishimura, S. Yamamoto, K. Saito and T. Saito, Effects of neutron irradiation on corrosion and segregation behavior in austenitic stainless steels 179 (1991) 1061
Nakahigashi, S., see Fukuya, K. 179 (1991) 1057
Nakahigashi, S., see Takahashi, H. 179 (1991) 629
Nakai, K., C. Kinoshita and N. Nishimura, Irradiation-induced spinodal decomposition and its process in Fe–Mo alloys 179 (1991) 1046
Nakai, K., see Abe, H. 179 (1991) 917
Nakai, K., see Asai, Y. 179 (1991) 1050
Nakai, K., see Matsunaga, A. 179 (1991) 457
Nakai, K., see Satoh, Y. 179 (1991) 399
Nakajima, M., see Ogawa, M. 179 (1991) 449
Nakajima, T., I. Takaya, T. Akiyama, A. Kitamura, S. Yano, S. Sengoku, H. Ohtsuka and H. Maeda, Study on hydrogen-isotope retention with collector probes in JFT-2M scrape-off layer 179 (1991) 349
Nakamura, H., see Ando, T. 179 (1991) 339
Nakamura, K., see Kitajima, M. 179 (1991) 180
Nakamura, K., see Niwase, K. 179 (1991) 214
Nakamura, K., see Tokunaga, K. 179 (1991) 356
Nakamura, Y., S. Kitajima, K. Shinohara, S. Ishimoto, T. Shodai, T. Torimaru and K. Yasuda, Low temperature embritllement of low energy He implanted pure iron and iron-based alloys 179 (1991) 749
Nakamura, Y., see Shinohara, K. 179 (1991) 246
Nakata, K., S. Kasahara, S. Shimanuki, Y. Katano, H. Ohno and J. Kuniya, Damage structure obtained by cross-sectional observation in silicon carbide irradiated with helium ions 179 (1991) 403
Nakata, K., see Kasahara, S. 179 (1991) 500
Nakata, K., see Kato, T. 179 (1991) 623
Nakazawa, S., see Abe, F. 179 (1991) 663
Nandedkar, R.V., see Kesternich, W. 179 (1991) 1015
Narui, M., see Kayano, H. 179 (1991) 425
Narui, M., see Kayano, H. 179 (1991) 671
Narui, M., see Kimura, A. 179 (1991) 737
Narui, M., see Yoshida, H. 179 (1991) 644
Natsume, S., see Hayakawa, H. 179 (1991) 693
Naundorf, V., see Müller, A. 179 (1991) 958
Naundorf, V., see Tyagi, A.K. 179 (1991) 1026
Naundorf, V., see Wollenberger, H. 179 (1991) 1069
Nesaki, K., see Matsui, H. 179 (1991) 461
Neustroev, V.S., see Shamardin, V.K. 179 (1991) 637
Nickel, H., see Brandstädter, A. 179 (1991) 367
Nickel, H., see Koizlik, K. 179 (1991) 1100
Nickel, H., see Šmid, I. 179 (1991) 169
Nihoul, J., see Schiller, P. 179 (1991) 13
Nishiguchi, R., Y. Shimomura, P.A. Hahn, M.W. Guinan and M. Kiritani, Comparison of PKA energy spectra, gas-atom production and damage energy deposition in neutron irradiation at various facilities 179 (1991) 1073
Nishiguchi, R., see Watanabe, N. 179 (1991) 905
Nishikawa, M., M. Kawai, T. Yokoyama, T. Hoshiya, M. Naganuma, M. Kondo, K.

Yoshikawa and K. Watanabe, Mechanical characteristics of the shape memory alloy driver focusing on quick replacement technology for fusion devices 179 (1991) 1115
Nishikawa, M., see Hoshiya, T. 179 (1991) 1119
Nishikawa, S., M. Sawada, Y. Marukawa, P. Son and M. Miyake, Thermal erosion of graphite by pulsed electron beam 179 (1991) 176
Nishikawa, S., see Yoshida, H. 179 (1991) 640
Nishimura, N., see Nakai, K. 179 (1991) 1046
Nishimura, S., see Nakahigashi, S. 179 (1991) 1061
Nishiyama, Y., see Suzuki, M. 179 (1991) 441
Niwase, K. and T. Tanabe, Modification of graphite structure by D^+ and He^+ bombardment – II 179 (1991) 218
Niwase, K., K. Nakamura, I. Tanaka, Y. Miyamoto and T. Tanabe, Laser Raman microprobe analysis of the modified surface of He^+-irradiated graphite 179 (1991) 214
Niwase, K., see Ezawa, T. 179 (1991) 974
Noda, K., H. Matsuo, K. Watanabe, M. Sugimoto, Y. Kato, H. Sakai, T. Kikuchi, Y. Oyama, H. Ohno and T. Kondo, Characteristics of an energy selective neutron irradiation test facility (ESNIT) for material irradiation studies 179 (1991) 1147
Noda, K., Y. Ishii, H. Matsui, H. Ohno and H. Watanabe, Electrical conductivity of Li_2O under and after irradiation 179 (1991) 835
Noda, K., Radiation damage and irradiation effects in solid breeders 179 (1991) 37
Noda, K., see Kudo, H. 179 (1991) 800
Noda, T., H. Araki, F. Abe and M. Okada, Carbon fiber/SiC composite for reduced activation 179 (1991) 379
Noda, T., see Abe, F. 179 (1991) 663
Nunogaki, M., S. Ooi and K. Miyazaki, Protection against arc erosion of 316 stainless steel by plasma source nitridation 179 (1991) 286

Odette, G.R. and G.E. Lucas, The effects of intermediate temperature irradiation on the mechanical behavior of 300-series austenitic stainless steels 179 (1991) 572
Odette, G.R., see Elliott, C. 179 (1991) 434
Odette, G.R., see McNaney, J. 179 (1991) 429
Ogawa, H., see Yamanaka, S. 179 (1991) 303
Ogawa, M., M. Nakajima, K. Kurimoto and K. Hashimoto, Correlation between hydrogen and helium retentions in stainless steel irradiated with helium and hydrogen 179 (1991) 449
Ogawa, M., see Takatsu, H. 179 (1991) 344
O'hira, S., see Kudo, H. 179 (1991) 800
Ohno, H., T. Nagasaki, N. Igawa and H. Kawamura, Neutron irradiation effects of $PbO–SiO_2$ glasses 179 (1991) 473
Ohno, H., Dielectric and electrical design consideration of ceramics for fusion devices 179 (1991) 60
Ohno, H., see Nagasaki, T. 179 (1991) 335
Ohno, H., see Nakata, K. 179 (1991) 403
Ohno, H., see Noda, K. 179 (1991) 1147
Ohno, H., see Noda, K. 179 (1991) 835
Ohno, H., see Yoshizawa, I. 179 (1991) 787
Ohnuki, S., D.S. Gelles, B.A. Loomis, F.A. Garner and H. Takahashi, Microstructural examination of simple vanadium alloys irradiated in the FFTF/MOTA 179 (1991) 775
Ohnuki, S., see Kasahara, S. 179 (1991) 500
Ohnuki, S., see Kato, T. 179 (1991) 623
Ohnuki, S., see Muroga, T. 179 (1991) 546
Ohnuki, S., see Takahashi, H. 179 (1991) 629
Ohta, S., see Kayano, H. 179 (1991) 671
Ohta, S., see Kimura, A. 179 (1991) 741
Ohtsuka, H., see Nakajima, T. 179 (1991) 349
Ohtsuka, T., see Misawa, T. 179 (1991) 611
Okada, A., M.L. Hamilton and F.A. Garner, Microbulge testing applied to neutron irradiated materials 179 (1991) 445
Okada, A., T. Yasujima, T. Yoshiie, I. Ishida and M. Kiritani, Mechanical property changes and microstructures of iron irradiated with fission and fusion neutrons 179 (1991) 1083
Okada, A., see Hamilton, M.L. 179 (1991) 558
Okada, A., see Kiritani, M. 179 (1991) 1104
Okada, A., see Moriyama, H. 179 (1991) 839
Okada, M., see Ishino, S. 179 (1991) 3
Okada, M., see Noda, T. 179 (1991) 379
Okada, T., see Hahn, P.A. 179 (1991) 1127
Oku, T., see Ando, T. 179 (1991) 339
Oku, T., see Suzuki, M. 179 (1991) 441
Okuda, S., see Mizubayashi, H. 179 (1991) 585
Ono, K., T. Kino, S. Furuno, K. Hojou, K. Izui, K. Mizuno and K. Ito, Effect of hydrogen on the formation of interstitial loops in hydrogen-irradiated aluminum 179 (1991) 978
Onose, S., see Kinoshita, H. 179 (1991) 722
Ooi, S., see Nunogaki, M. 179 (1991) 286
Oschinski, J., see Feuerstein, H. 179 (1991) 882
Oshima, R., S. Honda, G.C. Hua, T. Tanabe and F.E. Fujita, Defects in Si irradiated with D–T neutrons, D and He ions 179 (1991) 947
Otsu, H., see Furuno, S. 179 (1991) 1011
Otsu, H., see Maeta, H. 179 (1991) 1003
Oyama, Y., see Noda, K. 179 (1991) 1147
Ozaki, S., see Fukuya, K. 179 (1991) 1057

Pan, C., see Qian, J. 179 (1991) 603
Penzhorn, R.-D., M. Devillers and M. Sirch, Storage of tritium in ZrCo alloy: Effect of pre-exposure to impurities relevant to the fusion fuel cycle 179 (1991) 863
Perlado, J.M., J. Sanz and M. Piera, Production of transmutants and displacement effect in the EURAC spallation neutron source for testing of fusion materials 179 (1991) 1151
Perlado, J.M., see Sanz, J. 179 (1991) 702
Perujo, A., see Reiter, F. 179 (1991) 316
Petersen, C. and G.H. Rubiolo, High-temperature thermal fatigue of AISI 316L steel 179 (1991) 488
Philipps, V., E. Vietzke and H. Trinkaus, Radiation enhanced sublimation of carbon and carbon related materials 179 (1991) 25

Piera, M., see Perlado, J.M. 179 (1991) 1151
Platov, Y.M., see Shamardin, V.K. 179 (1991) 637
Pontikis, V., see Massobrio, C. 179 (1991) 921
Porter, D.L., G.D. Hudman and F.A. Garner, Irradiation creep and swelling of annealed Type 304L stainless steel at ~390°C and high neutron fluence 179 (1991) 581
Proennecke, S., see Horsewell, A. 179 (1991) 924
Puigh, R.J., see Garner, F.A. 179 (1991) 577

Qian, J., J. Chen, J. Chen, Z. Xu, W. Wang and C. Pan, Corrosion of austenitic stainless steel in liquid lithium 179 (1991) 603
Qingwang, C., see Changqi, S. 179 (1991) 322

Ramachandra, C., N. Wanderka, R.P. Wahi and H. Wollenberger, Microstructural stability in a Cu–Cr–Si alloy under 300 keV Cu^+ ion irradiation 179 (1991) 1030
Rao, G.R., A. Rowcliffe and B.A. Chin, Development of miniature bending fatigue specimens 179 (1991) 438
Reheis, N., see Šmid, I. 179 (1991) 169
Reiter, F., J. Camposilvan, M. Caorlin, A. Perujo and S. Tominetti, Recycling of hydrogen from stainless steel surfaces under ITER/NET conditions 179 (1991) 316
Renda, V., see Matera, R. 179 (1991) 485
Reuther, T.C., A perspective on the history, status and future of fusion materials research in the United States 179 (1991) 9
Ritzhaupt-Kleissl, H.-J., see Kummerer, K.R. 179 (1991) 831
Röhrig, H.D., see Borgstedt, H.U. 179 (1991) 596
Rose, D.H., see Verrall, R.A. 179 (1991) 855
Roth, J., W. Eckstein, E. Gauthier and J. Laszlo, Sputtering of low-Z materials 179 (1991) 34
Roth, J., see Hechtl, E. 179 (1991) 290
Roux, N., M. Briec, M. Bruet, T. Flament, C. Johnson, M. Masson, A. Terlain and F. Tournebize, The Sibelius experiment: Study of the irradiation behaviour of beryllium/ceramic and beryllium/steel compacts 179 (1991) 827
Rowcliffe, A., see Elliott, C. 179 (1991) 434
Rowcliffe, A., see Rao, G.R. 179 (1991) 438
Rowcliffe, A.F., A. Hishinuma, M.L. Grossbeck and S. Jitsukawa, Radiation effects at fusion reactor He:dpa ratios: Overview of US/Japan spectrally tailored experiments 179 (1991) 125
Rubiolo, G.H., see Petersen, C. 179 (1991) 488
Ruedl, E. and G. Valdrè, Formation of dislocations, precipitates and cavities in He-implanted Mn–Cr austenitic steels 179 (1991) 648
Rustichelli, F., see Albertini, G. 179 (1991) 706

Saito, K., see Nakahigashi, S. 179 (1991) 1061
Saito, M., see Misawa, T. 179 (1991) 421
Saito, M., see Misawa, T. 179 (1991) 611
Saito, T., see Nakahigashi, S. 179 (1991) 1061
Saitoh, Y., see Yoshiie, T. 179 (1991) 931
Saka, H., K. Kawamura, Y. Morozumi and H. Teshima, Effect of external tensile stress on the growth of interstitial loops 179 (1991) 966
Sakai, H., see Noda, K. 179 (1991) 1147
Sakaida, H., N. Sekimura and S. Ishino, In-situ observation of cascade damage in nickel and copper under heavy ion irradiation 179 (1991) 928
Sakamoto, I., N. Hayashi, B. Furubayashi and H. Tanoue, Effect of Xe-ion irradiation on austenitic stainless steel 179 (1991) 1053
Sakamoto, I., see Kobayashi, N. 179 (1991) 469
Sakamoto, Y., see Miyahara, K. 179 (1991) 652
Salmonson, J.C., see Šmid, I. 179 (1991) 169
Sample, T., see Barker, M.G. 179 (1991) 599
Sample, T., see Hubberstey, P. 179 (1991) 886
Sannier, J., see Broc, M. 179 (1991) 820
Sannier, J., see Casini, G. 179 (1991) 47
Sanz, J. and J.M. Perlado, Neutron damage in reduced activation martensitic alloys in inertial and magnetic fusion reactors: Comparison with fission reactors 179 (1991) 702
Sanz, J., see Perlado, J.M. 179 (1991) 1151
Sasaki, K., T. Yano, T. Maruyama and T. Iseki, Helium release and microstructure of neutron-irradiated SiC ceramics 179 (1991) 407
Sasaki, S., see Ezawa, T. 179 (1991) 974
Sasaki, S., see Ishida, I. 179 (1991) 913
Sasaki, Y., see Kunimitsu, S. 179 (1991) 689
Sato, K., see Yoshiie, T. 179 (1991) 931
Sato, S., see Kohyama, A. 179 (1991) 254
Sato, Y., see Yamanaka, S. 179 (1991) 303
Satoh, Y., C. Kinoshita and K. Nakai, Kinetic study of defect clusters in the $MgO–Al_2O_3$ system under electron- and/or ion-irradiation 179 (1991) 399
Satoh, Y., S. Kojima, T. Yoshiie and M. Kiritani, Criterion of subcascade formation in metals from atomic collision calculation 179 (1991) 901
Satoh, Y., see Kiritani, M. 179 (1991) 1104
Satoh, Y., see Yoshiie, T. 179 (1991) 954
Satou, M., K. Abe and H. Kayano, High-temperature deformation of modified V–Ti–Cr–Si type alloys 179 (1991) 757
Savineau, M., see Alberman, A. 179 (1991) 1154
Sawada, M., see Nishikawa, S. 179 (1991) 176
Sawai, T., P.J. Maziasz and A. Hishinuma, Microstructural evolution of welded austenitic stainless steels irradiated in the spectrally-tailored ORR experiment at 400°C 179 (1991) 519
Sawai, T., see Suzuki, M. 179 (1991) 718
Sawicki, J.A., see Kushita, K.N. 179 (1991) 235
Schäfer, L., see Anderko, K. 179 (1991) 492
Schiffers, H., see Brandstädter, A. 179 (1991) 367
Schiller, P., K. Ehrlich and J. Nihoul, History, present status and future of fusion reactor materials research in the EC and other European countries 179 (1991) 13
Schirra, M., see Dequidt, E. 179 (1991) 659

Schroeder, H. and H. Ullmaier, Helium and hydrogen effects on the embrittlement of iron- and nickel-based alloys 179 (1991) 118
Schroeder, H. and N. Yamamoto, Helium bubble microstructure in SS 316L, 20% c.w. and its correlation to the in-beam mechanical properties 179 (1991) 453
Schroeder, H. and P.F.P. Fichtner, On the coarsening mechanisms of helium bubbles – Ostwald ripening versus migration and coalescence 179 (1991) 1007
Schumacher, G., see Dalle Donne, M. 179 (1991) 796
Seguchi, T., see Egusa, S. 179 (1991) 1111
Seki, M., M. Guseva, G. Vieider and J. Whitley, ITER related R & D on low-Z plasma-facing materials for divertor and first wall 179 (1991) 1189
Seki, M., see Kiuchi, K. 179 (1991) 282
Seki, M., see Takatsu, H. 179 (1991) 344
Sekimura, N. and S. Ishino, The effect of titanium addition on microstructural evolution in austenitic steel irradiated with fast neutrons in FFTF 179 (1991) 542
Sekimura, N., see Fukumura, A. 179 (1991) 897
Sekimura, N., see Sakaida, H. 179 (1991) 928
Sengoku, S., see Nakajima, T. 179 (1991) 349
Seo, M., see Misawa, T. 179 (1991) 611
Shamardin, V.K., T.M. Bulanova, V.S. Neustroev, L.I. Ivanov, E.V. Djomina and Y.M. Platov, Mechanical characteristics and swelling of austenitic Fe–Cr–Mn steels irradiated in the SM-2 and BOR-60 reactors 179 (1991) 637
Shikama, T. and H. Kayano, Structural changes of deposited $Ti_{1-x}B_x$ films due to neutron irradiation 179 (1991) 465
Shikama, T., H. Kayano, M. Fujitsuka and T. Tanabe, Induced radioactivity of commercial isotropic graphites for high heat flux tiles 179 (1991) 209
Shima, S., see Fukuya, K. 179 (1991) 1057
Shimakawa, S., see Hoshiya, T. 179 (1991) 1119
Shimanuki, S., see Nakata, K. 179 (1991) 403
Shimizu, M., see Ando, T. 179 (1991) 339
Shimomura, Y., see Fukushima, H. 179 (1991) 939
Shimomura, Y., see Fukushima, H. 179 (1991) 943
Shimomura, Y., see Nishiguchi, R. 179 (1991) 1073
Shimomura, Y., see Watanabe, N. 179 (1991) 905
Shin, K., see Takagi, I. 179 (1991) 319
Shinno, H., see Fujitsuka, M. 179 (1991) 189
Shinno, H., see Kitajima, M. 179 (1991) 180
Shinohara, K., A. Kawakami, S. Kitajima, Y. Nakamura and M. Kutsuwada, Effects of He^+ irradiation on the mechanical properties of molybdenum 179 (1991) 246
Shinohara, K., see Asai, Y. 179 (1991) 1050
Shinohara, K., see Fukumoto, K. 179 (1991) 935
Shinohara, K., see Nakamura, Y. 179 (1991) 749
Shiraishi, H., see Fujitsuka, M. 179 (1991) 189
Shiraishi, H., see Kimoto, T. 179 (1991) 507
Shiraishi, H., see Nagakawa, J. 179 (1991) 986
Shiraishi, K., K. Fukai and E. Yagi, Damage profiles in a stainless steel irradiated with Ar and N ions 179 (1991) 550
Shiraishi, K., see Morito, F. 179 (1991) 592
Shirasu, Y., S. Yamanaka and M. Miyake, Solubility of hydrogen isotopes in graphite 179 (1991) 223
Shirasu, Y., see Yamanaka, S. 179 (1991) 303
Shodai, T., see Nakamura, Y. 179 (1991) 749
Simons, R.L., see Garner, F.A. 179 (1991) 554
Simons, R.L., see Kawanishi, H. 179 (1991) 511
Singh, B.N. and A.J.E. Foreman, Some limitations of simulation studies using the ppm to dpa ratio as the helium generation rate 179 (1991) 990
Singh, B.N., see Heinisch, H.L. 179 (1991) 893
Singh, B.N., see Horsewell, A. 179 (1991) 924
Singh, B.N., see Woo, C.H. 179 (1991) 951
Sirch, M., see Penzhorn, R.-D. 179 (1991) 863
Slagle, O.D., G.W. Hollenberg and D.L. Baldwin, The FUBR-1B irradiation experiment – Tritium release and physical stability of solid breeder materials 179 (1991) 843
Slagle, O.D., see Baldwin, D.L. 179 (1991) 329
Smathers, D.B., see Hahn, P.A. 179 (1991) 1127
Šmid, I., C.D. Croessmann, J.C. Salmonson, J.B. Whitley, E. Kny, N. Reheis, G. Kneringer and H. Nickel, Brazed graphite/refractory metal composites for first-wall protection elements 179 (1991) 169
Smith, D., see Hull, A.B. 179 (1991) 824
Smith, D.L., W. Daenner, G. Kalinin and H. Yoshida, ITER R&D on breeder blanket materials 179 (1991) 1185
Smith, D.L., see Loomis, B.A. 179 (1991) 148
Smith, D.L., see Loomis, B.A. 179 (1991) 771
Smith, D.L., see Loomis, B.A. 179 (1991) 783
Soga, T., see Hojou, K. 179 (1991) 411
Sommer, W.F., see Horsewell, A. 179 (1991) 924
Son, P., see Nishikawa, S. 179 (1991) 176
Sordon, G., see Dalle Donne, M. 179 (1991) 796
Stubbins, J.F. and F.A. Garner, The relative influence of helium/dpa ratio and other variables on neutron-induced swelling of Fe–Ni–Cr alloys at 495°C and 14 dpa 179 (1991) 523
Sugimoto, M., see Ezawa, T. 179 (1991) 974
Sugimoto, M., see Noda, K. 179 (1991) 1147
Sugisaki, M., H. Furuya, T. Ichigi, N. Koori and I. Kumabe, Tritium release behavior of a Al–Mg–Li alloy irradiated by thermal neutrons 179 (1991) 312
Summers, L.T., see Hahn, P.A. 179 (1991) 1127
Suzuki, K., see Misawa, T. 179 (1991) 421
Suzuki, M., M. Eto, K. Fukaya, Y. Nishiyama, T. Kodaira, T. Oku, M. Adachi, A. Umino, I. Takahashi, T. Misawa and Y. Hamaguchi, Evaluation of toughness degradation by small punch (SP) tests for neutron-irradiated $2\frac{1}{4}$Cr–1Mo steel 179 (1991) 441
Suzuki, M., T. Sawai, P.J. Maziasz and A. Hishinuma, Microstructural development of 10Cr–2Mo ferritic steel irradiated to 57 dpa in HFIR 179 (1991) 718

Suzuki, M., see Hamada, S. 179 (1991) 515
Suzuki, M., see Hojou, K. 179 (1991) 496
Suzuki, Y., see Kayano, H. 179 (1991) 425
Suzuki, Y., see Yamaguchi, K. 179 (1991) 242
Suzuki, Y., see Yamawaki, M. 179 (1991) 239

Tada, M., see Yano, S. 179 (1991) 779
Tagishi, Y., see Mizubayashi, H. 179 (1991) 585
Takagi, I., M. Matsuoka, H. Fujita, K. Shin and K. Higashi, In-situ depth-profiling of deuterium in nickel exposed to RF plasma 179 (1991) 319
Takahashi, H., S. Ohnuki, H. Kinoshita and S. Nakahigashi, Effect of alloying elements on phase stability in neutron-irradiated Fe–Cr–Mn model alloys 179 (1991) 629
Takahashi, H., see Garner, F.A. 179 (1991) 633
Takahashi, H., see Kasahara, S. 179 (1991) 500
Takahashi, H., see Kato, T. 179 (1991) 623
Takahashi, H., see Kinoshita, H. 179 (1991) 722
Takahashi, H., see Kurokawa, K. 179 (1991) 762
Takahashi, H., see Ohnuki, S. 179 (1991) 775
Takahashi, I., see Suzuki, M. 179 (1991) 441
Takahashi, Y., see Terai, T. 179 (1991) 808
Takahashi, Y., see Terai, T. 179 (1991) 871
Takao, Y., Y. Kanda, T. Yomura, A. Hashiguchi and S. Kurisu, Topographical change of high-temperature copper surface bombarded by Ar ions 179 (1991) 298
Takatsu, H., M. Seki, M. Araki, M. Yamamoto, K. Fukaya, M. Ogawa, M. Etoh, S. Yamazaki, S. Koga and T. Kobayashi, Electron beam heating tests of newly-developed C/C composites for application to JT-60U divertor plate 179 (1991) 344
Takatsu, H., see Ando, T. 179 (1991) 339
Takaya, I., see Nakajima, T. 179 (1991) 349
Takehana, S., K. Hakozaki, M.W. Guinan and H. Matsui, Magnetic study of defects in iron induced by 14 MeV neutron irradiation 179 (1991) 1092
Takenaka, M., see Kuramoto, E. 179 (1991) 202
Tam, S.W., J. Wright, L.A. Curtiss and C.E. Johnson, Investigations of hydrogen/Li_2O surface interactions via quantum chemical cluster methods 179 (1991) 859
Tam, S.W., see Kopasz, J.P. 179 (1991) 816
Tamura, M., see Hayakawa, H. 179 (1991) 693
Tamura, T., see Kaga, S. 179 (1991) 588
Tanabe, T. and Y. Watanabe, Hydrogen behavior in graphite at elevated temperatures 179 (1991) 231
Tanabe, T., see Ezawa, T. 179 (1991) 1038
Tanabe, T., see Fujitsuka, M. 179 (1991) 189
Tanabe, T., see Kitajima, M. 179 (1991) 180
Tanabe, T., see Kuramoto, E. 179 (1991) 202
Tanabe, T., see Niwase, K. 179 (1991) 214
Tanabe, T., see Niwase, K. 179 (1991) 218
Tanabe, T., see Oshima, R. 179 (1991) 947
Tanabe, T., see Shikama, T. 179 (1991) 209
Tanaka, I., see Niwase, K. 179 (1991) 214
Tanaka, S., A. Kawamoto, D. Yamaki, K. Yamaguchi and M. Yamawaki, In situ tritium release experiments from solid breeding materials (TTTEx) – Surface reaction on Li_2O and $LiAlO_2$ for sweep gases of $He + H_2$ and $He + H_2O$ 179 (1991) 867
Tanaka, S., see Yamaguchi, K. 179 (1991) 242
Tanaka, S., see Yamaguchi, K. 179 (1991) 325
Tanaka, S., see Yamawaki, M. 179 (1991) 239
Tanimura, J., see Ezawa, T. 179 (1991) 1038
Tanoue, H., see Sakamoto, I. 179 (1991) 1053
Terai, T., H. Mohri and Y. Takahashi, Equilibrium pressure of water vapor over a Li_2O(s)–LiOH(s, l) mixture 179 (1991) 808
Terai, T., S. Nagai and Y. Takahashi, In-reactor tritium release experiment from molten lithium–lead alloy ($Li_{17}Pb_{83}$) 179 (1991) 871
Terlain, A., see Broc, M. 179 (1991) 820
Terlain, A., see Roux, N. 179 (1991) 827
Teshima, H., see Saka, H. 179 (1991) 966
Tezuka, H., see Kohyama, A. 179 (1991) 254
The TRIAM Group, , see Tokunaga, K. 179 (1991) 353
The TRIAM Group, , see Tokunaga, K. 179 (1991) 356
Thevenot, G., see Alberman, A. 179 (1991) 1154
Tokunaga, K., T. Fujiwara, N. Yoshida, T. Muroga, S. Itoh and The TRIAM Group, Modification of a limiter under ultra long pulse operation in the superconducting high-field tokamak TRIAM-1M 179 (1991) 353
Tokunaga, K., T. Muroga, Y. Miyamoto, T. Fujiwara, N. Yoshida, K. Nakamura, N. Hiraki, S. Itoh and The TRIAM Group, Electron microscopy of materials modification induced by tokamak plasma 179 (1991) 356
Tokunaga, K., see Kamezaki, H. 179 (1991) 193
Tomabechi for the ITER Team, K., ITER: design overview 179 (1991) 1173
Tominetti, S., see Reiter, F. 179 (1991) 316
Tomokiyo, Y., see Matsunaga, A. 179 (1991) 457
Torimaru, T., see Nakamura, Y. 179 (1991) 749
Tortorelli, P.F., see Bell, G.E.C. 179 (1991) 615
Tournebize, F., see Roux, N. 179 (1991) 827
Trinkaus, H., see Philipps, V. 179 (1991) 25
Tupholme, K.W., D. Dulieu and G.J. Butterworth, The effect of ageing on the properties and structures of low activation martensitic 9 and 11% Cr, W, V stainless steels 179 (1991) 684
Tyagi, A.K., M.-P. Macht and V. Naundorf, Enhanced diffusion of nickel in ion-irradiated FeNiB metallic glass 179 (1991) 1026

Ullmaier, H., see Schroeder, H. 179 (1991) 118
Umino, A., see Suzuki, M. 179 (1991) 441

Valdrè, G., see Ruedl, E. 179 (1991) 648
Van der Laan, J.G. and H.T. Klippel, Simulation and analysis of the response of carbon materials to off-normal heat loads accompanying plasma disruptions 179 (1991) 184
Van der Laan, J.G., H.T. Klippel, J. Bakker and R.C.L. Van der Stad, Structural and metallurgical effects in stainless steel for first-wall applications in simulated plasma disruptions 179 (1991) 270

Van der Laan, J.G., see Groot, P. 179 (1991) 370
Van der Stad, R.C.L., see Van der Laan, J.G. 179 (1991) 270
Van Dijk, C., see Albertini, G. 179 (1991) 706
Verrall, R.A., D.H. Rose, J.M. Miller, I.J. Hastings and D.S. MacDonald, Bubble formation in irradiated Li_2O 179 (1991) 855
Victoria, M., see Marmy, P. 179 (1991) 697
Vieider, G., see Seki, M. 179 (1991) 1189
Vietzke, E., see Philipps, V. 179 (1991) 25
Vlak, W.A.H.M., see Albertini, G. 179 (1991) 706
Vollath, D. and H. Wedemeyer, Process for the preparation of lithium metazirconate 179 (1991) 793
Vollath, D., see Dalle Donne, M. 179 (1991) 796

Wahi, R.P., see Ramachandra, C. 179 (1991) 1030
Waite, N.C., G.J. Adetunji, R.G. Faulkner and E.A. Little, Radiation-induced segregation and high-temperature ductility in 12%CrMoVNb ferritic–martensitic steel 179 (1991) 1065
Wallura, E., see Brandstädter, A. 179 (1991) 367
Wanderka, N., see Ramachandra, C. 179 (1991) 1030
Wang, W., see Qian, J. 179 (1991) 603
Watanabe, H., A. Aoki, T. Muroga and N. Yoshida, Effect of combined addition of phosphorus and titanium on microstructural evolution in Fe–Cr–Ni alloys 179 (1991) 529
Watanabe, H., see Kurasawa, T. 179 (1991) 851
Watanabe, H., see Noda, K. 179 (1991) 835
Watanabe, K., see Hoshiya, T. 179 (1991) 1119
Watanabe, K., see Nishikawa, M. 179 (1991) 1115
Watanabe, K., see Noda, K. 179 (1991) 1147
Watanabe, M., see Maeta, H. 179 (1991) 1003
Watanabe, N., R. Nishiguchi and Y. Shimomura, Computer simulation of displacement cascade structures in D–T neutron-irradiated Au, Ag, Cu, Ni and Al with the MARLOWE code 179 (1991) 905
Watanabe, Y., see Tanabe, T. 179 (1991) 231
Wedemeyer, H., see Dalle Donne, M. 179 (1991) 796
Wedemeyer, H., see Vollath, D. 179 (1991) 793
Werle, H., see Breitung, W. 179 (1991) 847
Werle, H., see Dalle Donne, M. 179 (1991) 796
Whitley, J., see Seki, M. 179 (1991) 1189
Whitley, J.B., see Miyahara, A. 179 (1991) 19
Whitley, J.B., see Šmid, I. 179 (1991) 169
Wiedersich, H., Effects of the primary recoil spectrum on microstructural evolution 179 (1991) 70
Williams, F.R., see Davis, J.W. 179 (1991) 197
Wollenberger, H. and V. Naundorf, Determination of basic parameters for damage correlation 179 (1991) 1069
Wollenberger, H., Phase stability and cascade size 179 (1991) 76
Wollenberger, H., see Ramachandra, C. 179 (1991) 1030
Woo, C.H., B.N. Singh and H.L. Heinisch, Diffusion-based evaluation of defect processes in cascade zones 179 (1991) 951
Wright, J., see Tam, S.W. 179 (1991) 859

Xu, Z., see Qian, J. 179 (1991) 603

Yagi, E., see Shiraishi, K. 179 (1991) 550
Yamada, R., see Nagasaki, T. 179 (1991) 335
Yamaguchi, K., S. Tanaka and M. Yamawaki, The modeling of hydrogen transport in metals and its application to the evaluation of hydrogen permeation and inventories 179 (1991) 325
Yamaguchi, K., Y. Suzuki, S. Tanaka and M. Yamawaki, Effect of coatings on the hydrogen permeability of graphite 179 (1991) 242
Yamaguchi, K., see Tanaka, S. 179 (1991) 867
Yamaguchi, K., see Yamawaki, M. 179 (1991) 239
Yamaguchi, K., see Yamawaki, M. 179 (1991) 804
Yamaguchi, S., see Yoshiie, T. 179 (1991) 931
Yamaki, D., see Tanaka, S. 179 (1991) 867
Yamamoto, M., see Ando, T. 179 (1991) 339
Yamamoto, M., see Takatsu, H. 179 (1991) 344
Yamamoto, N., see Nagakawa, J. 179 (1991) 986
Yamamoto, N., see Schroeder, H. 179 (1991) 453
Yamamoto, S., see Nakahigashi, S. 179 (1991) 1061
Yamamura, Y., Computer simulation of cascade damage in metals 179 (1991) 94
Yamanaka, S., Y. Sato, H. Ogawa, Y. Shirasu and M. Miyake, Poisoning effect on solubility of hydrogen isotopes in getter materials 179 (1991) 303
Yamanaka, S., see Shirasu, Y. 179 (1991) 223
Yamanaka, S., see Yamauchi, T. 179 (1991) 308
Yamauchi, T., S. Yamanaka and M. Miyake, Thermal release behavior of helium implanted into nickel 179 (1991) 308
Yamauchi, T., see Atsumi, H. 179 (1991) 227
Yamawaki, M., K. Yamaguchi and M. Yasumoto, Thermochemical study of vaporization of ceramic breeding materials by Knudsen effusion mass spectrometry 179 (1991) 804
Yamawaki, M., K. Yamaguchi, Y. Suzuki and S. Tanaka, Dependence of hydrogen permeabilities of isotropic graphites on the pore structure 179 (1991) 239
Yamawaki, M., see Tanaka, S. 179 (1991) 867
Yamawaki, M., see Yamaguchi, K. 179 (1991) 242
Yamawaki, M., see Yamaguchi, K. 179 (1991) 325
Yamazaki, M., see Kayano, H. 179 (1991) 425
Yamazaki, S., see Takatsu, H. 179 (1991) 344
Yan, C., see Mizubayashi, H. 179 (1991) 585
Yano, S., M. Tada and H. Matsui, Hydrogen embrittlement of MFR candidate vanadium alloys 179 (1991) 779
Yano, S., see Nakajima, T. 179 (1991) 349
Yano, T. and T. Iseki, Thermal and mechanical properties of neutron-irradiated aluminum nitride 179 (1991) 387
Yano, T., see Sasaki, K. 179 (1991) 407
Yasuda, K., see Nakamura, Y. 179 (1991) 749
Yasujima, T., see Okada, A. 179 (1991) 1083
Yasumoto, M., see Yamawaki, M. 179 (1991) 804
Yokoyama, T., see Nishikawa, M. 179 (1991) 1115
Yomura, T., see Takao, Y. 179 (1991) 298
Yoshida, H., K. Miyata, M. Narui and H. Kayano, Fracture behavior of neutron-

irradiated high-manganese austenitic steels 179 (1991) 644
Yoshida, H., K. Miyata, S. Nishikawa and H. Kodaka, Irradiation effects on mechanical properties of low activation Mn–Si–Cr steels 179 (1991) 640
Yoshida, H., see Fukushima, H. 179 (1991) 939
Yoshida, H., see Kaga, S. 179 (1991) 588
Yoshida, H., see Smith, D.L. 179 (1991) 1185
Yoshida, N., H.L. Heinisch, T. Muroga, K. Araki and M. Kiritani, Microstructure–tensile property correlation of 316 SS in low-dose neutron irradiations 179 (1991) 1078
Yoshida, N., see Kamezaki, H. 179 (1991) 193
Yoshida, N., see Matsuda, M. 179 (1991) 962
Yoshida, N., see Muroga, T. 179 (1991) 259
Yoshida, N., see Tokunaga, K. 179 (1991) 353
Yoshida, N., see Tokunaga, K. 179 (1991) 356
Yoshida, N., see Watanabe, H. 179 (1991) 529
Yoshiie, T., M. Hasegawa, S. Kojima, K. Sato, Y. Saitoh, S. Yamaguchi and M. Kiritani, Positron lifetime measurement and latent vacancy clusters in 14 MeV neutron irradiated nickel 179 (1991) 931
Yoshiie, T., Y. Satoh, S. Kojima and M. Kiritani, Effect of cascade localization induced bias on defect structure evolution 179 (1991) 954
Yoshiie, T., see Ishida, I. 179 (1991) 913
Yoshiie, T., see Kiritani, M. 179 (1991) 1104
Yoshiie, T., see Okada, A. 179 (1991) 1083
Yoshiie, T., see Satoh, Y. 179 (1991) 901
Yoshikawa, K., see Nishikawa, M. 179 (1991) 1115
Yoshitake, A., see Hayakawa, H. 179 (1991) 693
Yoshizawa, I., Y. Katano, K. Kamada and H. Ohno, Helium production and precipitates in neutron-irradiated Al–Li and Al–Mg–Li alloys 179 (1991) 787
You, Y., see Kunimitsu, S. 179 (1991) 689
Youle, I., see Kushita, K.N. 179 (1991) 235
Yumoto, H., see Igata, N. 179 (1991) 279
Yumoto, H., see Igata, N. 179 (1991) 656
Yumoto, M., see Kitajima, M. 179 (1991) 180
Yuzhen, R., see Marmy, P. 179 (1991) 697

Zengyu, X., see Jiguang, S. 179 (1991) 526
Zhuoyong, Z., see Jiguang, S. 179 (1991) 526
Zinkle, S.J. and S. Kojima, Helium-assisted cavity formation in ion-irradiated ceramics 179 (1991) 395
Zinkle, S.J., K. Farrell and H. Kanazawa, Microstructure and cavity swelling in reactor-irradiated dilute copper–boron alloy 179 (1991) 994
Zinkle, S.J., see Kojima, S. 179 (1991) 982
Zinkle, S.J., see Miller, T.J. 179 (1991) 263
Zucchetti, M., E. Medda and G. Maizza, Nuclear properties of magnet structural materials for fusion reactors 179 (1991) 1123

Journal of Nuclear Materials 179–181 (1991) 1273–1274
North-Holland

Subject index

Adsorption 800, 812
Aging 481, 684, 689, 714
Aluminum 254, 588, 787, 893, 905, 970, 978, 1011, 1038
Aluminum nitride 387, 469
Aluminum oxide 375, 383, 395, 399, 766
Amorphous material 214, 403, 411, 457, 921
Austenitic stainless steel 105, 118, 125, 130, 259, 267, 270, 279, 282, 286, 316, 322, 353, 449, 453, 477, 481, 485, 488, 496, 500, 503, 507, 515, 519, 523, 526, 529, 534, 538, 542, 546, 550, 558, 563, 568, 572, 577, 581, 585, 599, 603, 607, 611, 615, 619, 626, 633, 637, 640, 644, 648, 652, 812, 820, 827, 998, 1007, 1015, 1019, 1057, 1061, 1078, 1131, 1179

Beryllium 42, 329, 820, 827
Bias 1019, 1096
Bubble 308, 403, 453, 496, 519, 538, 648, 652, 706, 787, 855, 994, 1003, 1007, 1011

Cascade damage 53, 70, 76, 81, 87, 94, 99, 111, 461, 893, 897, 901, 905, 909, 913, 917, 924, 928, 935, 939, 943, 951, 954, 1023, 1026, 1030, 1151
Ceramic breeder 37, 42, 793, 796, 800, 804, 808, 812, 816, 820, 827, 831, 835, 839, 843, 847, 851, 855, 859, 867, 1154, 1158, 1185
Ceramics 9, 13, 53, 60, 64, 259, 294, 375, 391, 395, 399, 457, 461, 465, 722, 917
Compatibility 603, 762, 820, 824, 827
Composite 173, 180, 184, 189, 197, 254, 344, 379, 1111, 1189
Computer simulation 70, 94, 360, 859, 893, 897, 901, 905, 909, 951, 986, 1019, 1023
Copper 87, 250, 263, 298, 335, 893, 905, 913, 924, 928, 935, 939, 958, 966, 982, 994
Corrosion 477, 596, 599, 611, 1061
Creep 118, 130, 453, 577, 741
Cu–Cr alloy 1030

Database 1135, 1139
Depth profile 319, 403, 449, 550, 974
Desorption 227, 231, 812, 847, 851, 882
Deuterium 223, 231, 335, 882, 947
Diffusion 231, 235, 259, 322, 816, 835, 851, 951, 958, 1026, 1042, 1069
Dislocation loop 399, 496, 507, 511, 523, 529, 534, 542, 546, 931, 954, 962, 966, 978, 1078, 1083
Distribution coefficient 879
Doping 816
Ductile–brittle transition 421, 425, 429, 441, 592, 663, 679, 733, 783, 1034

Electrical conductivity 835, 886
Electron energy loss 411
Electron irradiation 202, 383, 399, 457, 477, 526, 529, 623, 722, 917, 935, 966, 1038, 1046, 1050, 1057, 1111
Embrittlement 118, 148, 353, 434, 572, 644, 656, 725, 779, 990, 998, 1065, 1131

Fabrication 793, 796
Facility 3, 9, 13, 47, 339, 344, 349, 353, 485, 875, 935, 1073, 1104, 1147, 1151, 1154, 1173, 1185, 1189
Fatigue 118, 263, 438, 485, 488, 585, 697, 753
Ferritic steel 105, 118, 143, 282, 425, 429, 441, 492, 577, 588, 596, 611, 652, 667, 671, 675, 679, 689, 693, 697, 706, 709, 714, 718, 722, 725, 728, 733, 737, 741, 745, 749, 753, 827, 998, 1034, 1042, 1065
Fission–fusion correlation 81, 111, 461, 702, 1073, 1078, 1083, 1088, 1092
Fragmentation 843

Getter material 303
Glass 391, 473
Gold 893, 897, 905, 924, 939
Graphite 25, 34, 53, 169, 176, 180, 184, 189, 193, 197, 202, 205, 209, 214, 223, 227, 231, 235, 239, 242, 339, 457, 1100

Helium 99, 105, 111, 118, 125, 148, 218, 246, 395, 403, 449, 453, 465, 469, 496, 511, 515, 519, 538, 554, 558, 568, 648, 652, 709, 733, 749, 753, 787, 882, 935, 947, 970, 974, 990, 994, 998, 1003, 1007, 1011, 1038, 1131
Helium release 227, 308, 407
High heat flux material 13, 19, 173, 176, 189, 197, 209, 275, 282, 339, 344, 367, 477, 1193
Hydrogen 118, 223, 231, 239, 242, 316, 319, 325, 349, 411, 449, 500, 656, 737, 779, 970, 974, 978

Insulator 60, 64, 375, 383, 391
Intermetallic compound 921, 943
Ion irradiation 118, 214, 218, 246, 290, 298, 308, 395, 403, 411, 449, 469, 500, 503, 507, 538, 550, 585, 648, 652, 709, 745, 753, 835, 913, 917, 924, 928, 935, 939, 947, 958, 970, 974, 1003, 1007, 1011, 1026, 1030, 1038, 1042, 1053, 1069, 1088
Iron 749, 893, 1083, 1092
Irradiation creep 503, 745, 966, 986

Joint 169, 173, 259, 519, 588, 592, 693, 766, 1131

Laser 193
Lattice parameter 469
Liquid breeder 47, 820, 871, 875, 879, 882, 886, 1154, 1158, 1185
Liquid lithium 603
Lithium 824, 1147

Magnetic particles 267
Magnet material 1111, 1123
Mechanical properties 118, 125, 205, 246, 263, 275, 367, 375, 387, 417, 425, 434, 445, 453, 477, 492, 554, 558, 568, 572, 592,

637, 640, 644, 652, 659, 663, 667, 671, 684, 689, 693, 697, 728, 737, 749, 753, 757, 982, 1078, 1083, 1088, 1111, 1115, 1179
Microstructure 99, 924, 978, 1003
Miniature specimen 417, 425, 429, 434, 438, 441, 445, 619, 640, 757
Molecular dynamics 87, 897, 909
Molybdenum 246, 339, 356, 592, 893, 1088

Neutron irradiation 81, 111, 125, 130, 148, 202, 205, 209, 250, 254, 312, 329, 387, 391, 407, 417, 441, 445, 461, 465, 473, 496, 511, 515, 519, 523, 534, 542, 546, 554, 563, 568, 577, 581, 588, 592, 626, 629, 633, 637, 640, 644, 671, 702, 714, 718, 725, 728, 733, 741, 771, 775, 783, 787, 827, 831, 839, 843, 855, 867, 871, 875, 901, 924, 931, 939, 943, 954, 962, 982, 994, 998, 1015, 1034, 1061, 1065, 1073, 1078, 1083, 1088, 1092, 1100, 1104, 1119, 1127, 1147, 1151, 1158, 1179, 1189
Neutron scattering 706
Nickel 87, 308, 319, 905, 928, 931, 958, 962, 974

Pb–17Li 47, 596, 599, 820, 871, 875, 882, 886, 1154
Permeation 239, 242, 319, 322, 325, 335, 1158
Phase transformation 42, 76, 626, 629, 689, 1015, 1023, 1046, 1050, 1053
Plasma–wall interaction 19, 25, 34, 173, 176, 180, 184, 189, 193, 205, 209, 267, 270, 275, 282, 286, 294, 298, 319, 339, 344, 349, 353, 356, 360, 370, 485, 1189
Positron annihilation 202, 931, 947
Precipitate 279, 515, 648, 718, 722, 1015, 1030
Program 3, 9, 13, 19, 47, 1173
Pyrolytic carbon 184, 189, 218, 242, 457

Radiation damage 831, 835, 839
Raman spectroscopy 180, 214, 473
Reduced activation material 13, 135, 143, 148, 209, 254, 312, 425, 615, 623, 626, 629, 633, 637, 640, 656, 659, 663, 667, 671, 679, 684, 693, 702, 709, 714, 725, 728, 737, 741, 757, 787, 1123
Refractory metal 169, 275

Segregation 496, 615, 619, 623, 626, 629, 718, 775, 1034, 1038, 1046, 1061, 1065
Semiconductor 53, 917
Shape memory alloy 1115, 1119
SiC 254, 367, 379, 403, 407, 411, 457, 762
Silicon 947
Silver 893, 905, 939, 966
Small punch test 421, 429, 611
Solubility 223, 303, 800
Spallation reaction 1151
Spinodal decomposition 1046, 1050
Sputtering 34, 290, 294
Stochastic potential 1023
Stress corrosion cracking 481, 607, 611, 615, 619
Sublimation 25, 193, 282
Superconductors 1003, 1127
Surface modification 286, 339, 356, 370
Surface reaction 847, 867
Swelling 37, 250, 395, 457, 477, 500, 503, 507, 511, 515, 519, 526, 529, 534, 558, 577, 581, 629, 633, 637, 675, 709, 718, 771, 775, 843, 990, 994, 1019, 1057, 1096

Thermal property 796
TiC 294, 370
Titanium 303
Transmutation 250, 702, 787, 1073
Tritium 37, 235, 322, 800, 839, 847, 863, 879, 1131
Tritium release 42, 312, 329, 816, 843, 847, 851, 855, 859, 867, 871, 875, 1154, 1158
Tungsten 275, 290, 893

Vanadium 148, 757, 762, 766, 771, 775, 779, 783, 824
Vaporization 804
Void swelling 105, 125, 148, 523, 542, 546

Zirconium 303
ZrCo 863